# RICHARD A. DEISS & ASSOC. A'ES Consulting Engineers R. D. 1, Alden Street Ext. Meadville, Pa. 16335

August 20, 1979

Mr. David Milhous, P. E. Chief Facilities Section Pennsylvania Department of Environmental Resources 1012 Water Street Meadville, Pennsylvania 16335

Re: Industrial Waste Permit Appl.
Part II
Spectrum Control Inc.
Saegertown Borough, Crawford Co.

Dear Mr. Milhous:

Attached is the Part II application for Spectrum Control Inc., Saegertown Borough, Crawford County. The application consists of the following:

A \$25 filing fee check
Industrial Wastes Module with topographic section, Engineering
Narrative, Erosion Control Plan notation, and Pollution Incident Prevention Plan (2 copies)

Flow and equipment schematic plan (2 copies)

Please note that the Part I application was in process for a considerable time and that the scheduled implementation of the project is way behind schedule. Any assistance you can provide in expediting this application will be appreciated. I will be available to answer any questions you may have or to meet and discuss the treatment system design with you.

Very truly yours,

Richard A. Deiss, P. E.

RAD/ced

Attachments

cc: Jack Baker

AR200841

EXHIBIT D

ER-RW-51.2

DATE REVISED

DATE PREPARED 8-4-77

COMMONWEALTH OF PENNSYLVANIA T OF ENVIRONMENTAL RESOURCES DEPART ER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

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APPLICANT SPECTRUM CONTROL INC.	;;; ,
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LOCATION OF PROJECT: MUNICIPALITY SAEGERTOWN BOROUGH COUNTY CRAWFORD	s pr
DESIGN ENGINEER AND FIRM RICHARD A. DEISS P.E. RICHARD A. DEISS & ASSOCIATES	• ' '
	1
DESIGN ENGINEER'S ADDRESS MEADVILLE, PA - ZIP 16335 TELEPHONE (814) 336-1821	
一点对于自己的人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一	
DESCRIPTION OF PROJECT CONSTRUCTION OF A TREATMENT SYSTEM TO	
Constitution of the control of the c	•
FACILITIES DESCRIBED HEREIN	*****
\$PP#### 15 YEAR PER TEMP # 2015	
A. DOCUMENTATION REQUIRED	•
1. HAS A CHECK FOR \$25.00, PAYABLE TO THE PENNSYLVANIA DEPARTMENT OF THE YES NO NA NA	25.5
ENVIRONMENTAL RESOURCES, BEEN INCLUDED? (NOT REQUIRED OF STATE	1,1.
- 東京 OR FEDERAL AGENCIES)	
2. HAVE 2 COPIES OF THE APPLICATION, ER-BWQ-51, BEEN SUBMITTED? (THREE (3)	·
COPIES REQUIRED FOR PROJECTS IN THE DELAWARE RIVER BASIN)	
A. HAS THE AFFIDAVIT BEEN PROPERLY COMPLETED AND EXECUTED?	, 1930
B. HAS PROOF OF PUBLICATION BEEN SUBMITTED?  (REQUIRED IN ALL CASES WHERE THERE IS A DISCHARGE TO WATERS OF THE  COMMONWEALTH)	
3. HAS A POLLUTION INCIDENT PREVENTION REPORT BEEN INCLUDED?	,
4. DOES THE APPLICATION INCLUDE THE FOLLOWING APPLICABLE MODULES:	•
MODULE NUMBER OF NUMBER OF PAGES	٠,
2 GENERAL INFORMATION - INDUSTRIAL WASTES 9 Yes N/A	;
The state of the s	
4 WASTE LOAD AND CHARACTERISTICS 3 Yes N/A	•
5 GEOLOGY AND GROUND WATER INFORMATION 2 Yes N/A	
8 PUMPING FACILITIES 1 Yes N/A	
9 FLOW EQUALIZATION AND STORAGE BASINS 1 Yes N/A	
10 GRIT CHAMBERS , N/A	
11 SCREENING AND COMMINUTING DEVICES 2 Yes N/A	
Sentering and committee of the sentence of the	
12 IMHOFF AND SEPTIC TANKS 2 Yes N/A	
13 SETTLING TANKS, CLARIFIERS AND THICKENERS 2 YEAR 2 NACE 2	
, 14 EARTHEN SETTLING BASINS 2 Yes N/A	

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### WATER POLLUTION CONTROL .

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<u> </u>	INDUSTRIAL WASTES	For Department Use Only	
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A. DOCUMENTATION	REQUIRED - CONTINUED		
MODULE		NUMBER OF	
NUMBER	<u>TITLE</u>	PAGES	-
	TRICKLING EU TERC	1 Yes N/A	
15	TRICKLING FILTERS	La les	
16	AERATION TANKS OR BASINS	2 Yes N/A	
			•
17	WASTE STABILIZATION PONDS	3 Yes N/A	. •
			٠
18	CHEMICAL TREATMENT (INCLUDING FEEDERS)	2 Yes N/A	
		A SALAMAN AND THE SALAMAN AND	,
19	MIXING AND FLOCCULATION FACILITIES	Yes N/A	
		Type N/A	
20	SAND FILTERS	1 Yes N/A	,
		2 Yes N/A	
21	DISINFECTION	Tes	
22	SPRAY IRRIGATION	3 Yes N/A	• : :
23	PHYSICAL ABSORPTION, ION EXCHANGE,	2 Yes N/A	•
	AND CONTACT UNITS	[1] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	_
		□ N/A	
24	FLOTATION AND OIL SEPARATION	2 Yes	-
25	DEEP WELL DISPOSAL	4 Yes N/A	
			٠
26	SLUDGE TREATMENT AND DISPOSAL		*
	A. SEPARATE DIGESTION TANKS AND	1 Yes N/A	"
	SLUDGE THICKENING TANKS		
	C. WET OXIDATION	1 Yes N/A	,
		1 Ves N/A	
	D. SLUDGE DRYING BEDS	1 Yes N/A	
,	E. LAND DISPOSAL OF SLUDGE	1 Yes N/A	
•			
	F. SLUDGE BASINS	1 Yes N/A	
1	G. FILTERS AND CENTRIFUGES	1 Yes N/A	
1		1 Yes N/A	
	H. INCINERATION	1 Yes N/A	
	I. DEEP MINE DISPOSAL	2 Yes N/A	
	The second secon		
27	HEATED WASTES	2 Yes N/A	
•	÷	******	^
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For Departme	ent Use 1	Onlv	
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B. REQUIRED DATA						
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(3 COPIES REQUI	RED FOR PHOJECTS IN L	ELAWARE RIVE	IN BASIN)			
ALL UNITS DESCI	N DIAGRAM OF WASTE T RIBED IN MODULES' (ON MODULES) GEOLOGICAL SURVEY T	APPROX' 8% x	11" PAPER,	₽ Y	es	
	RGE AND TREATMENT				es ·	
D. HAVE YOU APPLE	ED FOR APPROVAL OF S	TREAM ENCRO	ACHMENTS?	· · · ·	es No V	N/A
E. HAVE YOU APPLI	: ED FOR APPROVAL OF A	AIR POLLUTION	CONTROL FA	CILITIES? Y	es No V	YN/A
		-46. T				-
· OFFICERS IN THE	RS IN THE CASE OF A PA CASE OF A CORPORATI CORPORATED ASSOCIA	ON, UNINCORP	ORATED			
3. SPECIFY THE FOLLO	WING:		* * * * * * * * * * * * * * * * * * * *			•
	•	· .			a	/20/20
PLANS SP	ECTRUM C		<u>, 1N⊂.</u>	NO. OF SHEETS		120/19
	Title/Des	cription				
PLANS:	• •		• • • • • • • • • • • • • • • • • • • •	NO. OF SHEETS	DATE_	
, ,	Title/Des	cription				1
PLANS:	•			NO. OF SHEETS	DATE	,
	Title/Des	cription				
PLANS:	•		•	NO. OF SHEETS	DATE	
	Title/Des	cription		; <del></del>		
B. SPECIFICATIONS	/1E ABBLICABLE)		N/A ·		·	
a. aregretos tions	AFFLICABLE).		· · · · · · · · · · · · · · · · · · ·	Title		
	NUM	BER OF VOLUM	E\$		DATE:	,
C. OTHER (SPECIFY	TYPE AND NUMBER): "	•	•		AR200	844

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DEPART T OF ENVIRONMENTAL RESOURCES
WATER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

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B. REQUIRED DATA - CONTIN	UED			
4. ARE THE PLANS:				-
A CLEAR LEGIBLE AND			13 FP/	
A. CLEAR, LEGIBLE, AND	DHAWN TO SCALE?		Yes	L No
R WITHIN MAN YINALIM CIT	E OF 26 INCHES BY 50 INCHE			
B. WITHIN MAXIMUM SIZ	E OF 36 INCHES BY 50 INCHE		Yes	No No
C. CLASS OF CONSTRUCTION	等的。 第二章 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		44.集种独立	
THE CONTRACTOR OF THE PARTY OF				
1. TYPE:	NEW			
	REPLACEMENT OF EXISTING	G FACILITY		
	ADDITION AND/OR MODIFIC	*	• •	
	NO NEW CONSTRUCTION—A	PPROVAL REQUESTED OF	EXISTING FAC	LITY
D. PLANT STATUS				
			Section 1	
1. IS THE INDUSTRIAL ESTA	ABLISHMENT:	PROPOSED?		OF THIS PLANT
			TERIAL DIVISIO	
			212 22	
2. TYPE OF INDUSTRIAL ES	TABLISHMENT (USE STANDA	RD CODE OF UNITED STAT	res office of	•
STATISTICAL STANDARD				
事を見ませる。 フラス 基づか				
CODE 3679	DESCRIPTION	ELECTRONIC	COMPONE	NTS .
化轮电路 化氯化硫酸二氢				
A. TYPE OF PRODUCT: 7	ERMINALS & SHELLS;	CERAMIC CAPACI	TORS	,
	<u></u>			
B. DAILY PRODUCTION:	60,000.	30,000.	/	
	2.50	250		
C. DAYS PER YEAR OF PE	RODUCTION:	;	— <u>i</u> . ———	
D. WORKING DAY 7:	30 12:30 Ar		_	
D. WORKING DAY	AM TOPM N	AIN SHIFTS	; <del></del>	DAYS PER WEEK
	<u> </u>			
E. NUMBER OF EMPLOYE	ES			
3. TYPE OF OWNERSHIP:		BPORATION		
3. THE OF OWNERSHIP:		HER (SPECIFY)	**	•
4. HAS THIS APPLICATION E	EEN FILED AS THE RESULT (	F A VIOLATION NOTICE,	Yes	⊠ No
DEPARTMENT ORDER, OF		•	_	
5. THE DATE OF THE VIOLA	TION NOTICE, ORDER OR ST	PULATION IS		_ N/A
		•	: .	
6. LIST BY NUMBER AND DA	TE ANY PREVIOUSLY ISSUE	PERMITS RELEVANT TO	THIS INDUSTRIA	AL ESTABLISHMENT:
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### . WATER POLLUTION CONTROL

MODULE 2 - GENERAL INFORMATION

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 INDUSTRIAL WASTES

RINSES &	SPENT	SOLUT	IONS .	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* •
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. ARE INDUSTRIAL WASTES ESTABLISHMENT?	S NOW BEING PE	ODUCED BY	THE INDUST	RIAL	₩,	ıs ∐ No
A. IF YES, ARE THE INDU	STRIAL WASTES					,
1) DISCHARGED WI						
2) TREATED AND D	ISCHARGED WI	THOUT PERMI	T?			
3) TREATED AND D		DER WATER	QUALITY MA	NAGEMENT F	ERMIT?	
4) , DISCHARGED TO	MUNICIPAL SE	WERAGE SYST	гем?	<b>阿温度等</b>	经,集件关	
☐ SANITA	RY OR COMBIN	ED SEWERS		STOR	M SEWERS	
		SAEGER	TALL	i je jed <del>orit</del> i. STORM		S (BOROUG
NAMEO	F SYSTEM	<u> JAZGZ</u>		SIUKI	14 May 14. 24	2 (20/00
5) OTHER (DESCRIB	3E)	3-2		Januarita Jung Belatan di		de la la companya di santa di
it marking in the contract of		. 1	. • ,		* *	
	· · ·				e de la companya de l	
			-	• • • • •	<u> </u>	
B. IF 3) or 4), ABOVE, WHY	' IS THE CURRE	NT APPLICATI	ION BEING M	MADE? PE	RMIT 15	REQUIRED
	:-			, , , a		
1						
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PLANT, BRIEFLY DESC	RIBE THE TREA	TMENT PROV	IDED:			EATMENT
PLANT, BRIEFLY DESCI	RIBE THE TREA	TMENT PROV	IDED:		/	ATMENT
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PLANT, BRIEFLY DESCI	RIBE THE TREAL EAT MEN	TMENT PROV	IDED:		/	ATMENT
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PLANT, BRIEFLY DESCI  BATCH TR  WHAT IS THE METHOD OF  PUBLIC SEWERAGE SY  OWNERSHIP  LOCATION	RIBE THE TREAL  EAT MEN  DISPOSAL OF S  (STEM  EATMENT PLAN	TMENT PROV	IDED:		/	ATMENT
PLANT, BRIEFLY DESCI  BATCH TR  WHAT IS THE METHOD OF  PUBLIC SEWERAGE SY  OWNERSHIP  LOCATION  ON LOT SEPTIC TANK	DISPOSAL OF SEATMENT PLAN	TMENT PROV	IDED:		/	ATMENT
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PLANT, BRIEFLY DESCI  BATCH TR  WHAT IS THE METHOD OF  PUBLIC SEWERAGE SY  OWNERSHIP  LOCATION  ON LOT SEPTIC TANK	DISPOSAL OF SEATMENT PLAN	TMENT PROV	IDED:		/	ATMENT
PLANT, BRIEFLY DESCI  BATCH TR  WHAT IS THE METHOD OF  PUBLIC SEWERAGE SY  OWNERSHIP  LOCATION  ON LOT SEPTIC TANK	DISPOSAL OF SEATMENT PLAN	TMENT PROV	IDED:			ATMENT
BATCH TR  WHAT IS THE METHOD OF  PUBLIC SEWERAGE SY  OWNERSHIP  LOCATION  ON LOT SEPTIC TANK	DISPOSAL OF SEATMENT PLAN	TMENT PROV	IDED:			ATMENT

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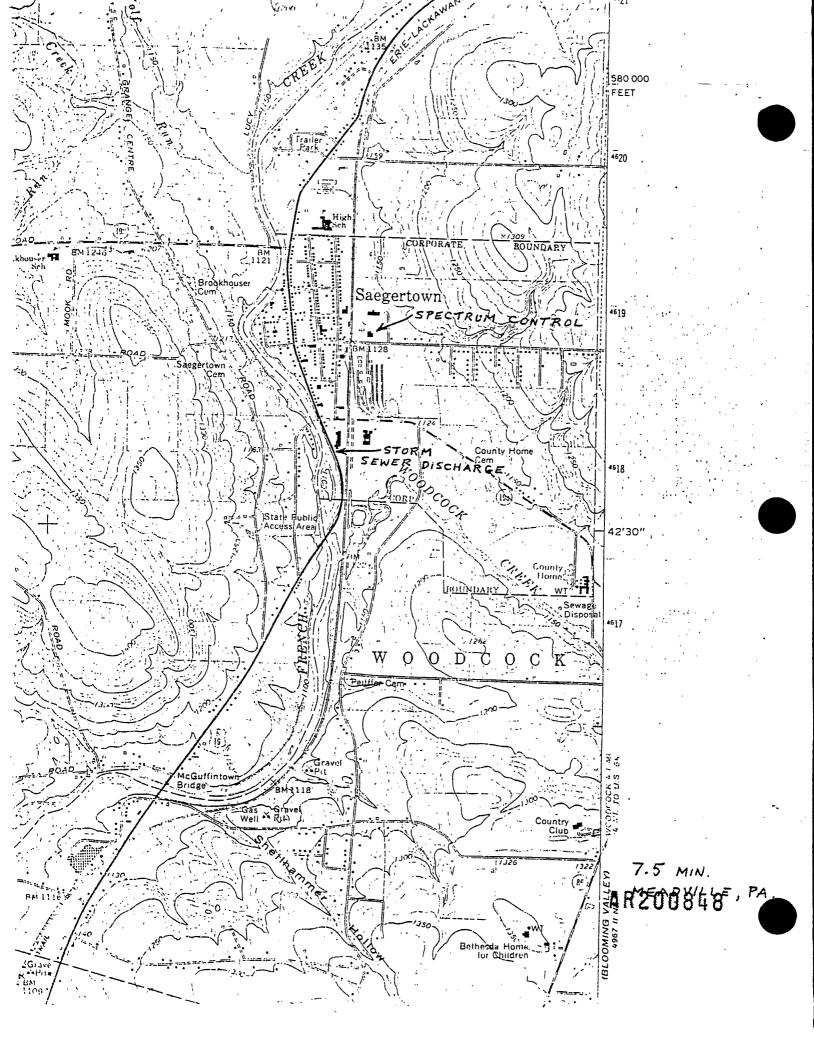
COMMONWEALTH OF PENNSYLVANIA
DEPART NT OF ENVIRONMENTAL RESOURCES
TER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

MODULE 2 - GENERAL INFORMATION .

<i>:</i> .	•			•	•	ļ
For D	epartmer	nt Us	e On	lý		, ,

INDUSTRIAL WASTES	Transfer and the state of the s
E. WASTE TREATMENT - CONTINUED	
4. OPERATIONAL FEATURES	
NOTE: IN ANSWERING THE FOLLOWING QUESTIONS, INFORMATION PROMUST APPLY TO ALL UNITS OF TREATMENT PLANT.	OVIDED
A. WILL STANDBY EQUIPMENT BE PROVIDED FOR ALL MECHANICAL UNIIN THE TREATMENT PLANT?	TS Yes No
1.) IF NO, WILL SPARE PARTS BE STOCKED AT THE TREATMENT PLANT FOR ALL CRITICAL MECHANICAL UNITS?	Yes No
2.) IF NO, ARE PARTS READILY AVAILABLE FROM LOCAL SUPPLIERS FOR REPAIRING MECHANICAL BREAKDOWNS?	Yes No
B. WILL PROCESS PRODUCING WASTES BE DISCONTINUED DURING PERIO OF EQUIPMENT FAILURE?	
1.) IF NO, DESCRIBE ANTICIPATED REDUCTION IN TREATMENT EFFICE DURING EQUIPMENT FAILURE.	
· "是我们的对象。""这种是这种,这种是一种的	
	1000 (11) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F. RECEIVING STREAM * STORM SEW	ER TRIBUTARY TO
1. WHAT IS THE NAME OF THE RECEIVING STREAM? FRENC	
(IF NO DISCHARGE TO STREAM, CHECK HERE AND NAME THE STREA	M WHICH DRAINS THE AREA)
A. TRIBUTARY OF: ALLEGHENY RIVER	
B. TRIBUTARY OF:	
	OMAC ALLEGHENY
사람들 (基本) 사고 지수는 남자 가는 사람들은 사람들이 되었다. 그 사람은 🕳 기다.	ESEE MONONGAHELA  OHIO
2. DESCRIBE THE EXACT POINT(S) OF DISCHARGE:	
41 DEG, 42 MIN, 4.5 SEC. LATITUDE	
80 DEG. 08 MIN. 46 SEC. LONGITUDE	
A. WATERSHED AREA ABOVE POINT OF DISCHARGE IS	
629 - SQUARE MILES.	
3. WHAT IS THE:	
A. MINIMUM 7-CONSECUTIVE-DAY FLOW OCCURRING ONCE IN 10 YEARS?	
30 CUBIC FEET PER SECOND	
B. MINIMUM STREAM FLOW? 22 CUBIC FEET PER SECON	AR200847
* ATTACH A LL S. GEOLOGICAL SURVEY 7.5' OR 15' QUADRANGLE MAP SHOWING	EXACT POINT(S) OF DISCHARGE



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### WATER POLLUTION CONTROL

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For	Depar	rtme	nt Us	e On	ly		 

C. FLOWS (FROM ITEMS 3.A. AND 3.	B.) ARE BASED ON:	MEASUREMENTS	16 YE	ARS OF RECORD.
		ESTIMATES		
D. IF STREAM GOES DRY, FOR HOW	MANY DAYS PER Y	EAR?		
IS THE TREATMENT PLANT SUBJECT	TTO FLOODING?		Yes	No No
THE PROBABILITY OF THE TREATM	ENT PLANT BEING C	OUT OF SERVICE		
DUE TO FLOODING IS ONCE IN	<i>O</i> YE	ARS.		
	:			
A. LIST BRIEFLY THE METHODS US	ED FOR FLOOD PRO	TECTION: FLOOI	R ELEVA	TICH IS
ABOVE MAXIMUM	FLOOD L	EVEL		The Armed Art Area
	=			
TO THE BEST OF YOUR KNOWLEDGE ADVERSELY AFFECT:	E, WILL THE TREATE	D WASTE DISCHARGE		
A. DOMESTIC WATER SUPPLY?			Yes	No.
B. BATHING?	•		Yes	No.
C. STOCK WATERING?	<i>y</i> .		Yes	No
D. FISH AND AQUATIC LIFE?			Yes	No
	•			
E. INDUSTRIAL WATER SUPPLY?	•		Yes	No.
F. IRRIGATION?			Yes	No
G. BOATING AND AESTHETICS?			Yes	No .
				W No
H. POWER AND NAVIGATION?			Yes	No
IF ANY ITEMS IN 6 ABOVE ARE ANS	NERED YES INDICA	TE LOCATION AND		
EXTENT OF ADVERSE EFFECT:	,,			
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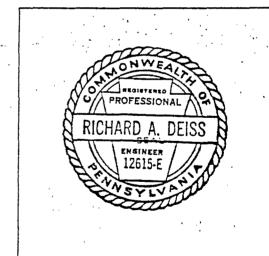
### WATER POLLUTION CONTROL

MODULE 2 - GENERAL INFORMATION INDUSTRIAL WASTES

G. PROCESS WATER - CON	ITINUED TABLE II	
SOURCE	NAME	AVERAGE WATER USE (MGD)
PUBLIC SUPPLY (INDICATE PURVEYOR & WATERSHED)	SAEGERTOWN BOROUGH	17,200
WELLS		
RIVER, STREAM, OR LAKE		
OTHER (SPECIFY)		

1. SIGNATURE OF PROFESSIONAL ENGINEER (Or Surveyor Where Permitted By Law)

2. SEAL OF PROFESSIONAL ENGINEER (Or Surveyor Where Permitted By Law)



AR200850

# RICHARD A. DEISS & ASSOCIATES Consulting Engineers R. D. 1, Alden Street Ext.

Meadville. Pa. 16335

November 28, 1979

Mr. Webster Jones Environmental Protection Specialist Pennsylvania Department of Environmental Resources 1012 Water Street

> Re: Pollution Incident Prevention Plan Spectrum Control Inc. Sægertown Borough, Crawford County

Dear Mr. Jones:

Enclosed are two copies of the Revised Notification Procedure for the Spectrum Control Pollution Incident Prevention Plan. Please add them to the Plan copies in your files.

If you have any other suggestions or recommendations for the Plan, please let me know. Spectrum Control is ready to order the treatment system as soon as the permit is issued so anything you can do to expedite the application processing will be appreciated.

Very truly yours,

Richard A. Deiss, P. E.

RAD/ced

Enclosure

cc: Jack Baker

# SPECTRUM CONTROL INC. SAEGERTOWN BOROUGH, CRAWFORD COUNTY

#### ENGINEERING NARRATIVE

The Spectrum Control Inc. Saegertown plant is engaged in the production of electronic components. Waste waters are produced by plating line rinses, spent plating solutions, ceramic part rinse, and non-contact cooling waters from compressor and ceramic kiln cooling.

The non-contact cooling waters are discharged at ambient temperatures and no treatment will be provided.

The plating rinses and spent solutions will be segregated into cyanide bearing wastes and non-cyanide bearing wastes. The small amount of water from the ceramic part rinse is included in the non-cyanide bearing wastes. The cyanide bearing wastes will be batch treated prior to mixing with the other wastes and final pH adjustment. The batch treatment will consist of feeding sodium hydroxide until the pH is 10.5 or higher and the batch maintains said high pH. Sodium hypochlorite will then be added to oxidize the cyanide to cyanate. The pH will then be lowered to 8.0 by the addition of sulfuric acid to oxidize the cyanate to harmless nitrogen and carbon dioxide. The batch treatment will be monitored by an indicating and recording pH meter and oxidation-reduction

AR200852

potential (ORP) meter to insure completion of the reaction. A controller consisting of a stepping-switch programmer and timers will be utilized to assist the plant operator in controlling the chemical feeders. The waste will not be discharged from the batch tank until the oxidation is complete. Two manual discharge valves are provided to decrease the possibility of the discharge of inade-quately treated wastewater. Both valves must be opened by the operator before the water can leave the tank. The recording pH and ORP meters will provide a record of the treatment of each batch. The batch tank with a capacity of 2314 gallons is ample to handle the cyanide bearing wastewater from one shift of work.

The non-cyanide bearing wastes will be continuously treated by pH adjustment for oxidation of metals by use of an Industrial Filter & Pump Mfg. Co. "Finalizer" (a flash mixing device with calcium hydroxide and sulfuric acid feed pumps and solution tanks). The wastewater will then be passed through a pressure diatomaceous earth filter to remove the precipitated solids. Provision is made for recirculating the effluent through the filter.

#### PROCESSES PRODUCING WASTES

Cooling Waters: All of the cooling waters are non-contact waters.

Kiln Cooling: Ceramic parts are fired in kilns. The parts travel through the kilns on small wheeled cars running along tracks (much AR200853

like miniature railroad cars). The cooling water is from water run through a tube in each track in order to cool the tracks.

Compressor Cooling: The air compressors have aftercoolers (enclosed jackets to cool the air). The cooling water flow is intermittent.

Developing Room Cooling: The degreaser in the developing room has an enclosed jacket for cooling. The degreaser is not used every day and when used, is in operation only about 2 hours per day, so that the cooling water flow is small.

Plating Waters: The plating waste waters originate from rinses following the plating and cleaning baths. The plating operation is manually conducted and efforts are made to minimize the dragout and the volume of rinse water discharged. Rinse water flow is regulated as much as possible by automatic valves with conductivity sensors.

The solutions used consist of alkaline cleaners, and nickel, silver, and tin plating baths. The silver bath is a silver cyanide solution.

Ceramic Etching: A 2% hydrofluoric acid solution is used to etch barium bearing ceramic parts. When the parts are rinsed some

AR200854

fluoride and barium enter the rinse water.

The spent acid and alkaline solutions from the plating operation may be hauled away for disposal or may be added into the waste treatment system at a controlled rate. No spent cyanide solution will be treated in the treatment system. The solids from the filter, and at times the other spent solutions, will be disposed of at Frontier Chemical, Niagara Falls, New York, or other approved site. Spent silver cyanide solutions and dragout will be returned to the chemical supplier (OxyMetal Industries Corporation, Philadelphia, Pa.) for silver recovery.

Richard A. Deiss, P. E.

Richard A. Deiss & Associates Consulting Engineers

ER-	BWQ.	51.4	REV.	11-76

B-6-77

1-9-79 Flow

### COMM EALTH OF PENN, YLVANIA DEPARTMEN. OF ENVIRONMENTAL RESOURCES WATER QUALITY MANAGEMENT

#### WATER POLLUTION CONTROL

	,
1	For Department Use Only

MODULE 4 - WASTE LOAD AND CHARACTERISTICS

TABL	E I – WASTE STATUS REPOI	RТ					,
FLO	ICATE TOTAL WASTE W FROM ESTABLISH- IT, FROM ALL SOURCES  O. 0 1 7 2 MGD	() () ()	UTF	CE OF NON-CONTACT  COOLING WATER  ALL NO.  TION: STORM SEWER  OUTFALL	OL OL	AST JTF	RCE OF PLATING LINE RINSES AND SOLUTIONS FALL NO. ATION: STORM SEWER OUTFALL
1. T	YPE OF WASTE	G		NON - CONTACT COOLING WATER	ای	∩[	HEAVY METALS, LOW PH
FLOW "	A. MGD (AVERAGE)	EXISTING	PROPOSED	0.0072	EXISTING	PROPOSED	0.010
ī.	B. MGD (MAXIMUM)	UNIT	TIND	0.0072	LINU	UNIT	0.010
3.						2	COLLECTION SUMP
		•		NONE		1	BATCH CYANIDE TREATMENT
	SEQUENCE OF			·. +		1	NEUTRALIZATION
	TOTATIATIST OTTO					1	FILTRATION
	TREATMENT STEPS					_	

NOTE: IN REPORTING WASTE CHARACTERISTICS ON THE NEXT PAGE THE FOLLOWING PRACTICES SHALL BE FOLLOWED:

- 1. The values shown in this module are to represent the untreated wastes and the finished wastes after treatment. The proposed discharge values will be used to establish effluent limitations. The column entitled "Proposed (Future) Discharge to Commonwealth Waters" should reflect the effluent limitations in the NPDES permit.
- 2. List all pollutants present in the wastewater and show the concentration of each.
- Tests must be performed according to methods approved in Regulation 91.42.
- 4. Characteristic values shall be reported as follows:
  - T Typical value appropriate for design purposes, not necessarily a precise average
  - A 30-day average the average of all daily sampling reported within any 30-day period OR a similar average for a different period, when so specified. Example: A5 average of all daily sampling reported within 5-day period, etc.
  - M Maximum that value which will not be exceeded in any grab sample
- Min Minimum that value which will be met or surpassed in any grab sample
- 5. Maximum values shall be given for all toxic materials, defined as those materials included on a list of toxic pollutants published by the Environmental Protection Agency pursuant to section 307(a) of the Water Pollution Control Act, 38 FR 24344, plus hexavalent chromium.
- 6. "Summer" is defined as the period May 1 thru October 31. "Winter" is defined as the period November 1 thru April 30.

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### COMMONWEALTH OF PENNSYLVANIA DEPARTMEN OF ENVIRONMENTAL RESOURCES WA1 QUALITY MANAGEMENT

WATER POLLUTION CONTROL

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MODULE 4 - WASTE LOAD AND CHARACTERISTICS

TAB	LE II – WASTE LOAD CHA	RACTERIST	ics						
-	<del></del>		SOU WA	JRCE OF STE: ع	NON-CONT OCLING L	ACT	SOURCE OF WASTE:	PLATING	LINE
					0. 002 STORM SI	EWER	OUTFALL NO OR LOCATION:	_	SEWER
			Infli To i Trea	uent Proposed stment st Or	Present Discharge To	Proposed (Future) Discharge To Commonwealth Waters	Influent To Proposed Treatment Plant Or Unit	Present Discharge To Commonwealtr Waters	Proposed (Future) Discharge To Commonwealt Waters
i. !	WASTE FLOW	Mgd	T 0	.0072	М	A M 0.0072	70,010 ·	M ·	A M0.010
2.	COLOR	Units	Т		A M	А М	т .	М	A M
		Summer	т	65	т	MAMBIENT	Т	Т	М
	TEMPERATURE Dag.F	Winter		65	Т	MAMBIENT	Τ,	т	М
4.	рН	Units	т		Min.	Min. 6. 0	₹ 5.0	Min.	Min. 6,0
•	рл .		<u> </u>		М	м 9.0	1 3.0	М	м 9.0
5.	ALKALINITY	Mg/L	т		Α	А	T // C	А	≈180.
	(Minus for Acid)		<u>L'</u>	<del></del>	М	м	T-160	М	М .
	001155 0110551555	14-11	т		Α	Α	T 1 1	A	A
5.	SOLIDS - SUSPENDED	Mg/L		·	М	М	-	М	N 60,
)	SOLIDS - SUSPENDED	Lbs/Day	τ	;	A	A	T	A	A
		· · · · · · · · · · · · · · · · · · ·			Α	А		А	Λ
3.	SOLIDS - DISSOLVED	Mg/L	Т		Μ	М	т	М	М
).	BOD Mg/L				Α	А		Α	· A
	(5 Day 20° C)	Summer	Τ		м	М	T	М	М
o.	BOD Mn/L		т		А	А		Α	4
	(5 Day 20° C)	Winter	1		М	М	T	М	М
1.	BOD Lbs/Day		т		Α	Α	T	Α	Α
	(5 Day 20° C)	Summer			М	М		М	M
2.	BOD Lbs/Day		т	•	A	Α	Т	Α	A
	(5 Day 20° C)	Winter	<u>'</u>		м	м .	<del>-</del>	М	[VI
3.	AMMONIA NITROGEN		т			Α	т .	Α	Α
	Mg/L	Summer'	ļ <u>.                                    </u>		м	М	-	М	M
4.	AMMONIA NITROGEN		т		A	Α	т	A	A
	Mg/L_	Winter	·		М	М	-	M	М
5.	TOTAL PHOSPHORUS (as	P) Mg/L	т		Α	_A	T	<u>A</u>	Α
					М	М		M	M
<b>6.</b>	DISSOLVED OXYGEN	: Mg/L	τ		A	A	т	A	A
				<del></del>	Min,	Min.		Min.	Min.
7.	OIL	Mg/L	т		Α	Α	т	Α	A 20.
					A	М		M A	M 30,
8.	FECAL COLIFORMS F	er 100 ML	т				т	M	M
	·				M	M A			ì
		Give Units)	т		Λ		T	<u> </u>	2008
<b>\</b>	OTHER (SPECIFY)	Give Units/			i M	М	•	M 343	- 1111 -
)_	OTHER (SPECIFY)	Give Onits)	<u>'</u>	<del></del> ,	A	A	'	A	A 0,84

<sup>\*</sup> Geometric mean of five consecutive samples

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8-6-77

COMM: "EALTH OF PENNSYLVANIA DEPARTME OF ENVIRONMENTAL RESOURCES

WATER QUALITY MANAGEMENT

WATER POLLUTION CONTROL


B-/5-79 Limits The MODULE 4 - WASTE LOAD AND CHARACTERISTICS

TABLE II - WASTE LOAD CHARACTERISTICS - CONTINUED								
	SOURCE OF WASTE: OUTFALL NO OR LOCATION:	).	,	SOURCE OF WASTE: PLATING LINE OUTFALL NO. OR LOCATION: STORM SEWER				
	influent To Proposed Treatment Plant Or Unit	Present Discharge To Commonwealth Waters	Proposed (Future) Discharge To Commonwealth Waters	Influent To Proposed Treatment Plant Or Unit	Present Discharge To Commonwealth Waters	Proposed (Future) Discherge To Commonwealth Waters		
OTHER (Specify) (Give Units)	т	A M	A M	т :	A M	A M		
NICKEL my/l	т	A M	A M	т <b>4</b> ,5	A ·	A 0.84 M 1.0		
SILVER my/l	т	м	М	₹ 5.0	м	A 0.04 M 0.05		
TIN mg/l	т ,	A M	M .	⊤ 2.0	м	A 1.7 м 2.0		
CYANIDE, TOTAL my/l	т .	А	A	⊤ <i>5.5</i>	A M	A 0.84 M 1.0		
CYANIDE, FREE mg/f	т	A M	A N	т	A M	A 0.084 M 0.25		
BARIUM mg/l	т	A M	A	τ.	A M	A 0.84 м 1.0		
FLUORIDE mg/l	т	A	A	т	A M	А 1.7 м 2.0		
IRON, TOTAL my/2	т	A	A	т	A	A 7.0 M /2.0		
	т	A	A	т	A	A		
	т	Α	Α	τ	А	А		
	т	А	M A	т	A	A		
	<u>'</u>	М	M A	•	М	A		
	т	M	M	т	М	M		

**REMARKS:** 

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES R QUALITY MANAGEMENT 8-17-79

### WATER POLLUTION CONTROL

MODULE 8 - PUMPING FACILITIES

For Department Use Only

(Do Not Use This Module For Sewage Pumping Stations)

TABLE I - LIST ALL THE PUMPS IN THE FACILITY. CLASSIFY EACH PUMP ACCORDING TO THE CLASSIFICATION KEY AND ANSWER ALL RELEVANT QUESTIONS.

-	1	Classification Key Check Columns Wet Well																
Q.		A. RAW WASTE PUMP That Apply						Wet Well Or										
HMP		B. REC	IRCULATION	N PUMP ,					Eac			Р					Sump	
NUMBER-OF-IDENTICAL-PHMPS-		1	I SLUDGE PL DGE RECIRC	IMP :ULATION PUMI	<b>.</b>					ر			_ ]	Pur Cap	np acity			
FICA	ćΕΥ	E. EFFI	LUENT PUMF	•						RO		O.	NOI	Cap	uoit y		SITY	o l
Į.	CLASSIFICATION KEY (Indicate By Letter)		E DEWATER: ER (Specify)	ING PUMP <u>PRESSURE</u> PUMP	FILTER			SPEED	ED	AUTOMATIC CONTROL	MANUAL CONTROL	PNEUMATIC EJECTOR	STANDBY OPERATION			Ě	CAPACITY	DETENTION PERIOD (MIN.)
F-I	CLASSIFICATION (Indicate By Letter)		· · · · · · · · · · · · · · · · · · ·	PUMP	·			SPE	CONSTANT SPEED	CC	NO	C.E.	OPE			TOTAL CAPACITY (GAL.)	S -	2 Z Z
H-O	FIC e By	INDICATE POINT OF	MAXIMUM SUCTION	SPECIFY	PRESSURE LINE	βĞ	PROPOSED	VARIABLE	ANI	1AT	4L C	ATI	ВХ			CA	EFFECTIVE (	TION F
MB	ASS	SUCTION	HEAD (FT.)	POINT OF DISCHARGE	VELOCITY (FPS.)	EXISTING	OPO	RIA	NST	TON	) N	E C	N O	(GPM.)	TDH (FT.)	TAL	FEC	1EN
S	고트				(113.7	ă	PR	>	8	₹	Σ	a N	ST,	-		٤	H.	DE
	(P-1)	COLLECTION	10'	BATCH TANK	N/A		1		1	1				15	25	245	200	VARIES
H	(P-3)	SUMP FILTER		PRESSURE	-71	-	<del>  ,</del>	-	<u> </u>	-								
2	G FINAL-	FILTER SUPPLY TANK	7′	FILTER	N/A		V	_	V	_	✓		_	20	115	610	650	VARIES
	IZER	COLLECTION SUMP 孝2	10'	FILTER SUPPLY TANK	N/A		1		<b>V</b>	✓				20	_	245	200	VARIES
								İ										
H							_	-	-	_			$\dashv$	_				
$\perp$								_					_	_				
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### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES W R QUALITY MANAGEMENT

## WATER POLLUTION CONTROL MODULE 9 - FLOW EQUALIZATION AND STORAGE BASINS

For D	epartment)	Use Only		

T.	ABLE I		UNITEN SUMP	UNIT DUMPS TANK	UNIT SUMP #2
	COMPLETE A	LL APPLICABLE INFORMATION	EXISTING PROPOSED	EXISTING PROPOSED	EXISTING PROPOSED
	1	NDICATE FUNCTION	Storage of: Untreated Waste Water Treated Waste Water	Storage of: Untreated Waste Water Treated Waste Water	Storage of: Untreated Waste Water Treated Waste Water
		HIS UNIT FROM: (Indicate Unit)	PLATING LINE	PLATING LINE	PLATING LINE 4 B
1.		POLYETHYLENE *			田
<u> </u>	b. WOOD				
SS	c. STEEL d. EARTHEN (	Excavation, Diked)			
A A	d. EARTHEN!	DE SLOPE (Vert.: Horiz.)		<u> </u>	1:
ALS	Z > (1) (NS(1)				1:'
ERI	N (2) 001	······································	1:	1:	'
TA A	(1) INSII (2) OUT: (3) BERI (4) LINII (4) LINII	M WIDTH (Ft.) NG MATERIAL, IF ANY			
ت ≤	ASI (E) THIS	KNESS OF LINING MATERIAL			
			<u> </u>		
2.	a. LENGTH	(Ft.) · ‡	4.		4.
s	b. WIDTH	(Ft.)	3. ′		3,
AGE O	c. OR DIAMET			2.0	
AVERAGE DIMENSIONS	d. DEPTH (1)	NORMAL OPERATING DEPTH (Ft.)	2.25	4.5	2.25'
\{\bar{2}{2}	(2	MAXIMUM AVAILABLE DEPTH (Ft.) *	2.25	4.5'	2.25'
	e. FREEBOAR	D (Ft.)	0.5	0.5	0.5
3.		(1) NORMAL OPERATING CAPTY. (Gal.)	200.	106.	200.
	a. CAPACITY	(2) TOTAL	COMPUTE THE TOTAL	FOR ALL UNITS HERE:	N/A
		(3) MAXIMUM AVAILABLE CAPTY. (Gal.)	200.		200.
¥.	b.DISCHARGE	(1) Flow (MGD)	0.0025	VARIABLE	0.01
DATA	TO UNIT	(2) DURATION (Hrs./Day)	16.	åt.	16.
ESIGN	c. DISCHARGE	(1) Flow (MGD)	0.0025	at	0.01
ESI	FROM UNIT		16.	1,	16
"	d. DETEN-	(1) AVERAGE (Hrs.)	VARIES	41	VARIES
	TION	(2) MAXIMUM (Hrs.)	UARIES	1	VARIES
A	SWITCH	ORMATION  OUTLET AND METHOD OF WATER LEVEL  DUMPS TANK = MANUAL  P OF FINALIZER PUMP	OPERATED VALV	E. SUMP #2 =	= MANUAL
	2. HOW WILL	SEDIMENT ACCUMULATION IN THE UNIT	BE MINIMIZED?		
	3. WILL SURF	ACE WATER BE DIVERTED FROM THE BA	ASIN?	U v	es No
	4 WILL SIDE	S BE PROTECTED AGAINST WAVE ACTION	1?		HILLUU QUU

NOTE: COMPLETE APPROPRIATE PORTIONS OF MODULE 5 IF AN EARTHEN BASIN IS USED.

<sup>\*</sup> LINED STEEL MAY BE USED.

FACTUAL DIMENSIONS MAY VARY, BUT CAPACITY AND FREEBOARD ARE FIXED.

# DATE PREPARED 8-17-79 DATE REVISED

# COMMONWEALTH OF PENNSYLVANIA DEPARTM OF ENVIRONMENTAL RESOURCES W \_R QUALITY MANAGEMENT

WATER POLLUTION CONTROL

MODULE 9 - FLOW EQUALIZATION AND

STORAGE BASINS

	1		
For Department Use Only		 	

T	ABLEI			FILTER SUPPL	y <u>.</u>	
)  .	ADEL 1		1	UNIT_ TANK	UNIT	UNIT
	COMPLET	TE A	ALL APPLICABLE INFORMATION	EXISTING	EXISTING	EXISTING
	· · · · · · · · · · · · · · · · · ·			PROPOSED	PROPOSED	PROPOSED
			.	Storage of:	Storage of:	Storage of:
	•	1	NDICATE FUNCTION	Untreated	Untreated	Untreated
		•	METOATE FORCETOR	Waste Water Treated Waste Water	Waste Water	Waste Water Treated Waste Water
L					Treated Waste Water	Treated waste water
\ \\\	<del></del>		HIS UNIT FROM: (Indicate Unit)	FINALIZER		
1.	a. CONCR	ETE				
	b. WOOD					
0 8	c. STEEL			<u> </u>		
AND	d. EARTH	EN (	Excavation, Diked)			
LS	(1)	NSI	DE SLOPE (Vert.: Horiz.)	1:	1:	1:
I¥ 5	Z (2) (	TUC	SIDE SLOPE (Vert.: Horiz.)	1:	1:	1:
	E (3) E	3E RI	M WIDTH (Ft.)			
MATERIALS	E ARTHEN ASINS ONLY (1) (2) (2) (3) (4) (4) (4) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	INI	IG MATERIAL, IF ANY			
	B (5)	THIC	KNESS OF LINING MATERIAL		. 1	
2	a. LENGTI		(Ft.)			1
2						
0	b. WIDTH		(Ft.)			
AVERAGE	c. OR DIA	MET	ER (Ft.)	4.5		
N. N.		(1)	NORMAL OPERATING DEPTH (Ft.)	5.5'	ļ	
A N	d. DEPTH	(2)	MAXIMUM AVAILABLE DEPTH (Ft.)	5.5'		
ء ا	e. FREEBO	DAR	D (Ft.)	0.5'		
3.			(1) NORMAL OPERATING CAPTY. (Gal.)	650.		
	a. CAPACI	<b>+</b> V	(2) TOTAL	COMPUTE THE TOTAL	FOR ALL UNITS HERE:	650.
	a. CAPACI	11			7 077 742 0117 01121127	650.
_	<b> </b>		(3) MAXIMUM AVAILABLE CAPTY. (Gal.)	<del></del>		
DATA	b. DISCHA TO UNIT		(1) Flow (MGD)	0.01		
1	10000		(2) DURATION (Hrs./Day)	16.		
5	c. DISCHA	RGE	(1) Flow (MGD)	0.01.		
DESIGN	FROMU	TIN	(2) DURATION (Hrs./Day)	16.		,
	d. DETEN-		(1) AVERAGE (Hrs.)	VARIES		
	TION		(2) MAXIMUM (Hrs.)	"		
-						
A.	GENERAL	INF	ORMATION			
				<b>~</b>		
	1. DESCRI	BE (	DUTLET AND METHOD OF WATER LEVEL	CONTROL: PUMP	ED OUTLET	LEVEL
					• •	
	CON	7 1	ROL SWITCH		· · · · · · · · · · · · · · · · · · ·	
	2 HOWW	111	SEDIMENT ACCUMULATION IN THE UNIT	BE MINIMIZED? A	MIXER IS	PROVIDED
		`				
	1		•			
			!			
	3. WILL SI	URF	ACE WATER BE DIVERTED FROM THE BA	SIN?	VY	s No
			,	,		IRZD086.1
	4. WILLS	DES	BE PROTECTED AGAINST WAVE ACTION	1?	Ye	s No NA
	:		•	•		,
	NOTE: CO	MPL.	ETE APPROPRIATE PORTIONS OF MODUL	E 5 IF AN EARTHEN BA	SIN IS USED.	
1	1		i			<u> </u>

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DATE PREPARED 8-17-79 DATE REVISED

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### COMMONWEALTH OF PENNSYLVANIA DEPARTM T OF ENVIRONMENTAL RESOURCES ER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

Module 18 — Chemical Treatment (Including Feeders)
(Do Not Use To Describe Disinfection Facilities)

		٠		
For	Department Use	Only	 	

(Submit appropriate module for each different chemical treatment process)  A. CHEMICAL TREATMENT  CYANIDE BATCH TREATMENT	
Existing Proposed	
Acid Cracking of Emulsion Other (Specific	y)
Continuous Precipitation	
2. DESCRIBE PROCESS: RAISE THE WASTEWATER PH to	
ADDITION OF NAOH, then FEED NaClo	to oxidize
the CYANIDE, LOWER THE PH to 8.0 BY	H2504 ADDITION TO
COMPLETE THE REACTION.  3. WASTE ENTERS THIS UNIT FROM COLLECTION SUMP	The second second
4. TIME REQUIRED FOR PROCESS IS	
5. DETENTION TIME PROVIDED IN REACTION UNIT IS 2 HOURS	ा । ज
6. OF WHAT MATERIAL IS THE REACTION UNIT CONSTRUCTED? STEEL	RESISTANT PAINTED
7. IS THE MATERIAL IN ITEM 5 RESISTANT TO THE RAW AND TREATED WASTE AND CHEMICALS USED?	Yes No
8. WILL THE PROCESS RESULT IN THE PRECIPITATION OF SOLIDS?	Yes No
A. IF YES, WILL THE SOLIDS BE RETAINED IN THE REACTION UNIT?	Yes No
B. IF NO, WILL A SETTLING UNIT BE PROVIDED FOR SOLIDS REMOVAL?	Yes No PRESSURE FILTER
C. IF SOLIDS WILL BE RETAINED IN THE REACTION UNIT, DESCRIBE METHOD AND F AND LOCATION OF SOLIDS DISPOSAL (If To Land, Complete Module 5):	FREQUENCY OF SOLIDS REMOVAL
9. WILL THE PROCESS INCREASE TOTAL SOLIDS?	Yes No
A. IF YES, SPECIFY INCREASE: $\frac{2400}{}$ MILLIGRAMS PER LITER.	
	Yes PNo
10. WILL CHEMICALS USED IN THE TREATMENT PROCESS PRODUCE ODORS OR TOXIC GASES?	Yes Li No
A. IF YES, ARE MEASURES BEING TAKEN TO CONTROL HAZARDS AND NUISANCES TO EMPLOYEES AND SURROUNDING POPULATION?	Yes No
B. IF YES, INDICATE METHODS:	#P0000
	44500865

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8-17-79

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### COMMONWEALTH OF PENNSYLVANIA DEPARTM OF ENVIRONMENTAL RESOURCES WALER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

Module 18 — Chemical Treatment (Including Feeders)

(Do Not Use To Describe Disinfection Facilities)

For Department	Use	Only		

) A	A. CHEMICAL TREATMENT - CONTINUED									
	11. IS CHEMICAL STORAGE AREA LARGE ENOUGH TO STOCK AMPLE SUPPLY OF CHEMICALS?  No									
991 919 8111	12. IS CHEMICAL STORAGE AREA PROTECTED TO PREVENT ACCIDENTAL DISCHARGE OF HAZARDOUS MATERIALS?									
	13.	EF.	FLUENT CHARACTERISTICS FI	` ROM CHEMICAL T	REATMENT UNIT(S) WILL BE:	PH >	10.5		· · · ·	
				: .·.				. •	_	
1 19 19 19 19 19 19 19 19 19 19 19 19 19	a	-	pH and an OR  ntroller to ass	P meter	indicator, reco	rder	with a	ca	_ f	eader
В.	СН	EM	ICAL FEEDERS AND CHEMICAL	LS USED IN THE P	ROCESS			::		
Т	ABL	≣ 1						:		
er	ting	Proposed	CHEMICAL NAME OR	DOSAGE (MG/L)	APPLICATION POINT	CAPACITY		ler		dby
Feeder	Exis	Prop	TRADE NAME	(1110) 2)		Lbs/Day	Range	Man	Auto	Stan
1.		V	Na O H Sodium Hydroxide	will Vary	Batch Tank	160 to	24.4 to 132 GPD	~	✓	
2.		1	Na Cl O Sodium Hypochlorite	will Vary	Batch Tank	160 to	24.4 to 132 GPD	V	V	
z.4		<b>V</b>	H2504 SULFURIC Acid	will Vary	Batch Tank	160 to 170	21.4 to 132 GPD	✓	<b>/</b>	
بھ			- · · · · · · · · · · · · · · · · · · ·			٠				
		1								7

DESCRIBE METHOD OF CONTROL OF FEED RATE: OPERATOR WILL SET CONTROLLER TO
ADJUST FEED RATES USING THE PH AND ORP METERALIZED 863
REMOVAL WILL BE CONFIRMED BY WEEKLY EFFLUENT MONITORING.

CONTROL IS IN THE BATCH TANK PRIOR TO DISCHARGE.

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### COMMONWEALTH OF PENNSYLVANIA DEPARTMF OF ENVIRONMENTAL RESOURCES W R QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

Module 18 — Chemical Treatment (Including Feeders)
(Do Not Use To Describe Disinfection Facilities)

				•		
For	Department	Use	Only		 	

(Submit appropriate module for each different chemical treatment process) A. CHEMICAL TREATMENT	
Existing Proposed	
1. TYPE OF PROCESS: Neutralization Reduction Acid Cracking of Emulsion Other (Specify)	
Batch Oxidation	
Continuous Precipitation	
2. DESCRIBE PROCESS: FLASH MIX NEUTRALIZATION USING	CaOH AND
H2504 IN A "FINALIZER" UNIT (INDUSTRIAL FILTE	R AND PUMP
MFG. CO. ) WITH AUTOMATIC PH CONTROL.	
WASTE ENTERS THIS UNIT FROM SUMP # 2	,
3. TIME REQUIRED FOR PROCESS IS MINUTES.	•
4. DETENTION TIME PROVIDED IN REACTION UNIT IS / MINUTES.	
5. OF WHAT MATERIAL IS THE REACTION UNIT CONSTRUCTED?STEEL	•
3. OF WHAT WATERIAL IS THE REACTION ONLY CONSTRUCTED?	<u> </u>
6. IS THE MATERIAL IN ITEM 5 RESISTANT TO THE RAW AND TREATED  WASTE AND CHEMICALS USED?	L_I No
7. WILL THE PROCESS RESULT IN THE PRECIPITATION OF SOLIDS?	□ No
A. IF YES, WILL THE SOLIDS BE RETAINED IN THE REACTION UNIT?	LY No
B. IF NO, WILL A SETTLING UNIT BE PROVIDED FOR SOLIDS REMOVAL?  Yes	No RESSURE FILTER
C. IF SOLIDS WILL BE RETAINED IN THE REACTION UNIT, DESCRIBE METHOD AND FREQUENCY ( AND LOCATION OF SOLIDS DISPOSAL (If To Land, Complete Module 5):	•
8. WILL THE PROCESS INCREASE TOTAL SOLIDS?	□ No
A. IF YES, SPECIFY INCREASE: 200 MILLIGRAMS PER LITER.	
· · · · · · · · · · · · · · · · · · ·	
9. WILL CHEMICALS USED IN THE TREATMENT PROCESS PRODUCE ODORS OR TOXIC GASES?	No
A. IF YES, ARE MEASURES BEING TAKEN TO CONTROL HAZARDS AND  NUISANCES TO EMPLOYEES AND SURROUNDING POPULATION?  Yes	No
	*****
B. IF YES, INDICATE METHODS:	HUSAAA

#### ER-BWQ-51.18

B-17-79

DATE REVISED

COMMONWEALTH OF PENNSYLVANIA
DEPART! OF ENVIRONMENTAL RESOURCES
& ER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

Module 18 – Chemical Treatment (Including Feeders)

(Do Not Use To Describe Disinfection Facilities)

				'	
For	Department	Use	Only		 

Α.	CHEMICAL	TREATMENT -	CONTINUED

10.	IS CHEMICAL STORAGE	AREA LARGE ENOUGH TO STOCK AMPLE SUPPLY
	OF CHEMICALS?	N.

Yes No

11. IS CHEMICAL STORAGE AREA PROTECTED TO PREVENT ACCIDENTAL DISCHARGE OF HAZARDOUS MATERIALS?

Yes No

12. EFFLUENT CHARACTERISTICS FROM CHEMICAL TREATMENT UNIT(S) WILL BE:

pH 8 to 9

13. WHAT INSTRUMENTATION AND ALARMS WILL BE PROVIDED TO MONITOR EFFLUENT QUALITY?

PH indicator recorder controller

### B. CHEMICAL FEEDERS AND CHEMICALS USED IN THE PROCESS

TABLE

1										ال :
e.	Existing	Proposed	CHEMICAL NAME OR	DOSAGE (MG/L)	APPLICATION POINT	CA	APACITY	ual		dby
Feeder	Exis	Prop	TRADE NAME	3 2	•	Lbs/Day	Range	Manual	Auto	Standby
3.		/	CaOH Calcium hydroxide	will vary	Finalizer		12 <i>00</i> GPH		<b>~</b>	
3		•	H <sub>2</sub> SO <sub>4</sub> Sulfuric Acid	will vary	Finalizer		1200 GPH		<b>✓</b>	
3.										
4.			<del>_</del> ·				·			
5.										

DESCRIBE METHOD OF CONTROL OF FEED RATE: Automatic pH controller/recorder

ESCRIBE LOCATIONS OF CONTROL POINTS IN FLOW STREAM:

Effluent line of Finalizer.

AR200865

ER 8WQ-51.19

DATE PREPARED
8-17-79
DATE REVISED
8-23-79

### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES ER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

MODULE 19 — MIXING AND FLOCCULATION FACILITIES

		'	
or Departm	ont Use I	Only	
o cpo	336	··· ,	 

INDICATE FUNCTION OF EACH UNIT AND FILL IN OR CHECK ALL RELEVANT DATA.  WASTE ENTERS THIS UNIT FROM:  Indicate Unit)  TANK Quick Mixing Flocculation  Existing Proposed  WASTE ENTERS THIS UNIT FROM:  Indicate Unit)  TANK Quick Mixing Flocculation  Existing Proposed  Existing Proposed  Flocculation  Existing Proposed  Existing Proposed  Flocculation  Existing Proposed  Indicate Unit)  Indicate Uni	- Quick
1 Type Of Structure B. Earthen Basin	Mix
1 Type Of Structure B. Earthen B. Earthen Basin	,
Structure   Basin	
Basin	•
3. Capacity (Gal) 2314, (Cu Ft) 309.  4. Detention Time (Min) 2 + Hours 2   1   5. Flow Through	
3. Capacity (Gal) 2314, (Cu Ft) 309.  4. Detention Time (Min) 2 + Hours 2   1   5. Flow Through	
3. Capacity (Gal) 2314, (Cu Ft) 309.  4. Detention Time (Min) 2 + Hours 2   1   5. Flow Through	
3. Capacity (Gal) 2314, (Cu Ft) 309.  4. Detention Time (Min) 2 + Hours 2   1   5. Flow Through	
(Cu Ft) 309.  4. Detention Time  (Min) 2 + Hours 2   -      5. Flow Through N/A -	
4. Detention Time  (Min)  2 + Hours  2   1	
5. Flow Through	<del></del>
5. Flow Through  Velocity (Ens)	
Valority (Ens)	
6. A. Number Per Unit 2	
B. Type Of  Mixing Device  PROPELLER  FLASH MIX CHAMBER	
C. Rapid Mixing	
Mixing Device  C. Rapid Mixing  D. Slow Mixing	
ONLY INDUSTRIAL WASTES APPLI-	
CANTS COMPLETE ITEM E	
S (1) Recirculated	
(2) Not Recirculated	
7. COAGULANT CHEMICALS CHEMICAL FEEDER CHEMICAL FEEDER CHEMICAL	FEEDER
1. NaOH   1. CaOH   3   1.	
2. NaC10 2 2. H2504 3 2.	
LIST CHEMICALS BY NAME  2. NaClO 2 2. H2504 3 2.	
OR FORMULA USED IN EACH 3. H2 S 04 4 3.	
FEEDER NUMBER USED AS 4. 4.	
DESCRIBED IN DETAIL IN "CHEMICAL TREATMENT,"	
MODULE 18. 5. 5.	
6. 6.	
7. 7. AR20	0866
8. : 8. 8.	

#### COPTONWEALTH OF PENNSYLVANIA ER-BWQ-51.26G DEPART TOF ENVIRONMENTAL RESOURCES DATE PREPARED ...TER QUALITY MANAGEMENT 8-17-79 WATER POLLUTION CONTROL DATE REVISED For Department Use Only SLUDGE TREATMENT AND DISPOSAL FACILITIES MODULE 26G - FILTERS AND CENTRIFUGES UNIT\_FILTER TABLE VII UNIT\_ UNIT\_ UNIT Existing Existing Existing Existing Proposed Proposed Proposed Proposed Vacuum Filter Vacuum Filter Vacuum Filter Vacuum Filter Pressure Filter Pressure Filter Pressure Filter Pressure Filter Centrifuge . Centrifuge Centrifuge , Centrifuge 1. INDICATE UNIT PRODUCING FINALIZER SLUDGE DIAMETER 3.0' DIMEN. SIONS (or width) (Ft.) (Ft.) LENGTH AREA (Sq.Ft.) 3. FILTERING MEDIUM DIATOMACEOUS EARTH FILTER & CENTRIFUG A. LBS/SQ.FT/HR VARIES B. LBS/HR C. TONS/DAY D. CH YO/DAY 0.18 gpm 5. SNI A. WETSLUDGE/Tons/Hr) VARIES B. SLUDGE SOLIDS (%) 6. MOISTURE EXPECTED ≈ 70 IN CAKE (%) 7. CHEMICALS USED (Specify) NONE DIATOMACEOUS EARTH 8. CONDITIONING METHOD (Specify) PRE-COAT 9. EXTENT OF UNIT USE 16 hrs/day 10. A. FILTRATE (GPD) DISPOSED TO: Effluent

11. IF DUPLICATE MECHIANICAL UNITS ARE NOT PROVIDED, DESCRIBE STANDBY METHOD OF OPERATION.

{Use additional sheets if necessary}

Frontier Chemical, New York.

APPROVED SITE

If unit is out of order, production lines producing the R200867 wastewater will not operate.

If To Land, Complete Module 5

B. CAKE DISPOSED TO:

ER-BW. 51.27

8-6-77
DATE REVISED

### COMMONWEALTH OF PENNSYLVANIA DEPARTME OF ENVIRONMENTAL RESOURCES WA R QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

MODULE 27 - HEATED WASTES

			,			
For Department	Use	Only		 	 	_

A. <u>G</u>	ENERAL INFORMATION
1.	NAME OF RECEIVING Stream  Lake  Estuary FRENCH CREEK
2.	AT THE POINT OF DISCHARGE, WHAT WATER TEMPERATURE CRITERION APPLIES:  (d <sub>1</sub> ) MAXIMUM OF 58° F (Trout propagation stream) (d <sub>3</sub> ) MAXIMUM OF 86° F (Delaware Estuary)
,	(d <sub>2</sub> ) MAXIMUM OF 87°F (d <sub>6</sub> ) MAXIMUM OF 74°F FEB. 15 TO JULY 31, OTHERWISE 87°F, (Trout stocking stream)
3.	WILL THE TEMPERATURE OF THE STREAM, AFTER MIXING, AT ANY TIME BE RAISED MORE THAN 5 DEGREES FAHRENHEIT BY THE HEATED DISCHARGE?  (This requirement may be more restrictive at lower stream temperatures)
<b>4.</b>	HEAT IN THE WASTE WATER ABOVE THE TEMPERATURE CRITERION CHECKED IN ITEM 2 IS  BTU/HR. (If zero, no further information required on this sheet).
5,	AT THE POINT OF DISCHARGE:
	A. THE MINIMUM 7-DAY, ONCE-IN-10-YEAR FLOW IScfs (See Module 2, Page 6)
	B. THE STREAM WIDTH AT THAT FLOW ISFEET.
:	C. THE AVERAGE STREAM DEPTH AT THAT FLOW ISFEET.
6.	AT THE ABOVE DESCRIBED MINIMUM FLOW:
٠	A. THE AVERAGE STREAM TEMPERATURE AT THE POINT OF DISCHARGE IS DEGREES FAHRENHEIT.
	(Specify source of this value)
•	B. THE STREAM WILL ABSORBBTU/HR IN ORDER FOR ITS TEMPERATURE TO BE RAISED TO:  'THE APPLICABLE TEMPERATURE CRITERION MAXIMUM.
7.	THE HEAT ABSORBING CAPACITY OF THE STREAM SO AS NOT TO EXCEED THE SPECIFIED TEMPERATURE MAY BE AT A MINIMUM AT A TIME OTHER THAN THE PERIOD OF LOW FLOW. FOR EXAMPLE:
	A. THE MAXIMUM STREAM TEMPERATURE OF RECORD ISDEGREES FAHRENHEIT.
	B. AT, THIS TEMPERATURE, THE FLOW WAS cfs.
	C. UNDER THESE CONDITIONS, THE STREAM WILL ABSORBBTU/HR IN ORDER FOR ITS TEMPERATURE TO BE RAISED TO THE APPLICABLE TEMPERATURE CRITERION MAXIMUM.
8.	SELECT, BETWEEN ITEMS 5 AND 6 ABOVE, WHICH HEAT ABSORBING CAPACITY IS LESS, OR OTHER COMBINATION OF FLOW AND TEMPERATURE KNOWN TO BE MORE CRITICAL.
	FLOW cfs: TEMPDegrees Fahrenheit. HEAT ABSORBING CAPACITYBTU/HR.
9.	AT THE MOST CRITICAL CONDITION, THE TEMPERATURE OF WASTES AND THE RECEIVING STREAM, AFTER
	COMPLETE MIXING, WILL BE DEGREES FAHRENHEIT.
10.	PROVIDE SKETCH OF MIXING ZONE WITHIN WHICH THE ALLOWABLE TEMPERATURE WILL BE EXCEEDED.
	A. THE ESTIMATED LENGTH OF MIXING ZONE REQUIRED TO ACHIEVE COMPLETE MIXING ISFEET.
	B. THE WIDTH OF THE MIXING ZONE WILL BEFEET. AR2008
	C. IF DISCHARGE IS EXISTING, PROVIDE ACTUAL TEMPERATURE DATA.

### ER-BWQ-51.27

DATE PREPARED

8-6-77 DATE REVISED COMM "EALTH OF PENNSYLVANIA
DEPARTME OF ENVIRONMENTAL RESOURCES
WATER QUALITY MANAGEMENT

### WATER POLLUTION CONTROL

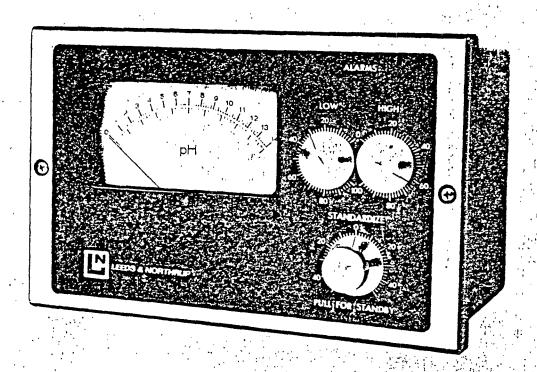
MODULE 27 - HEATED WASTES

_					
		•		•	
····					
For De	partmen	t Use	Only		

INDICATE:  Proposed  Propo							NTINUED	D <b>N</b> CΟΝΤΙ	RAL INFORMATIO	. GENERAL
10. WILL THE TEMPERATURE OF THE STREAM, AFTER MIXING, AT ANY TIME BE RAISED MORE THAN 2 DEGREES FAHRENHEIT DURING ANY ONE-HOUR PERIOD BY THE HEATED DISCHARGE?  11. WILL THE QUANTITY OF HEAT REJECTED TO THE STREAM BE REDUCED OR CONTROLLED BY THE USE OF TEMPERATURE-REDUCING UNITS OR PRACTICES?  12. WILL THE HEATED WASTE DISCHARGE CONTAIN OTHER WASTE CONSTITUENTS YES REQUIRING PERMIT, BUT FOR WHICH NO PERMIT IS IN FORCE?  13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY YES NO OF WATER IN THE VICINITY?  TABLE I  IF TREATMENT UNITS WILL BE EMPLOYED, Existing Proposed Proposed Proposed  TYPE (Labsons, Cooling Towers, Spray Ponds, Etc.)  WATER APPLIED TO UNIT Grimmarsture (Dog. F.)  WATER LEAVING UNIT BY EACH UNIT BUTHER  BY EACH UNIT BY SET EXCHANGE  BY EACH   · ·	□ No	Yes	 INED						•	
10. WILL THE TEMPERATURE OF THE STREAM, AFTER MIXING, AT ANY TIME BE RAISED MORE THAN 2 DEGREES FAHRENHEIT DURING ANY ONE-HOUR PERIOD BY THE HEATED DISCHARGE?  11. WILL THE QUANTITY OF HEAT REJECTED TO THE STREAM BE REDUCED OR CONTROLLED BY THE USE OF TEMPERATURE-REDUCING UNITS OR PRACTICES?  12. WILL THE HEATED WASTE DISCHARGE CONTAIN OTHER WASTE CONSTITUENTS REQUIRING PERMIT, BUT FOR WHICH NO PERMIT IS IN FORCE?  13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY Yes No OF WATER IN THE VICINITY?  TABLE I  14. WILL THE THEATMENT UNITS WILL BE EMPLOYED, Existing Proposed Proposed Proposed  15. WILL THE THEATMENT UNITS WILL BE EMPLOYED, Existing Proposed Proposed  16. WATER APPLIED TO UNIT Gpm  Temperature (Deg. F.)  WATER APPLIED TO UNIT BY EACH  WATER LEAVING UNIT BY EACH  WATER LEAVING UNIT BY EACH  WATER LEAVING UNIT BY EACH  WATER DISSIPATED  BY EACH  UNIT BRU/Hr  BU/Hr	•				L TIMES?	ESTREAM	JRE IN TH	MPERATURI	ALLOWABLE TE	AT ALL
BAY THE HEATED DISCHARGE?  11. WILL THE QUANTITY OF HEAT REJECTED TO THE STREAM BE REDUCED OR CONTROLLED BY THE USE OF TEMPERATURE-REDUCING UNITS OR PRACTICES?  12. WILL THE HEATED WASTE DISCHARGE CONTAIN OTHER WASTE CONSTITUENTS REQUIRING PERMIT, BUT FOR WHICH NO PERMIT IS IN FORCE?  13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY OF WATER IN THE VICINITY?  14. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY PROPOSED PROPOSED  15. TREATMENT UNITS WILL BE EMPLOYED, Existing Proposed Proposed Proposed  16. ARE THERE ANY PROPOSED PROPOSE	•							1		
11. WILL THE QUANTITY OF HEAT REJECTED TO THE STREAM BE REDUCED OR CONTROLLED BY THE USE OF TEMPERATURE-REDUCING UNITS OR PRACTICES?  12. WILL THE HEATED WASTE DISCHARGE CONTAIN OTHER WASTE CONSTITUENTS Vest No REQUIRING PERMIT, BUT FOR WHICH NO PERMIT IS IN FORCE?  13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY Vest No OF WATER IN THE VICINITY?  14. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY Pest No OF WATER IN THE VICINITY?  15. TREATMENT UNITS WILL BE EMPLOYED, Proposed Pro	· .	M No	Yes		•	•	EES FAH	12 DEGREE	SED MORE THAN THE HEATED DIS	RAISED BY THE
2. WILL THE MEATED WASTE DISCHARGE CONTAIN OTHER WASTE CONSTITUENTS	<b>5</b>	No.	Yes			_			L THE QUANTIT	11. WILL TI
REQUIRING PERMIT, BUT FOR WHICH NO PERMIT IS IN FORCE?  13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY Yes No OF WATER IN THE VICINITY?  TABLE I  IF TREATMENT UNITS WILL BE EMPLOYED, Existing Proposed Proposed Proposed  YPE Lapoons, Cooling Towers, Spray Ponds, Etc.)  VATER APPLIED TO UNIT  Gpin  Temperature (Deg. F.)  VATER LEAVING UNIT  BY EACH UNIT  BY HACH UNIT  BY EACH UNIT  BY HACH  BY		* := = : *: **		ACTICES?			F TEMPE	HE USE OF T	ITROLLED BY TH	CONTR
13. ARE THERE ANY OTHER DISCHARGES OF HEATED WASTES TO THE SAME BODY  OF WATER IN THE VICINITY?  TABLE I  IF TREATMENT UNITS WILL BE EMPLOYED, INDICATE:  Proposed  Proposed  Existing Proposed  Proposed  Proposed  Proposed  OF WATER APPLIED TO UNIT  Temperature (Deg. F.)  VATER LEAVING UNIT  BY EACH UNIT  BY EACH UNIT  BY BACH BY BACH UNIT  BY BACH BY BAC	· . • .	No	Yes	ITUENTS				•		
OF WATER IN THE VICINITY?    ABLE   UNIT		- •			FORCE	NO FERIMIT	. WHICH	BUTFORV	OTHING FERIMIT	, hedoir
TABLE I  IF TREATMENT UNITS WILL BE EMPLOYED, INDICATE:  Proposed  Existing Proposed  Proposed  Existing Proposed  Proposed  Existing Proposed  Existing Proposed  Proposed  Proposed  Existing Existing Proposed  Existing Exist Proposed  Exist Propo	•	W No	Yes	1E BODY .	STES TO THE SAN	OF HEATE				1
IF TREATMENT UNITS WILL BE EMPLOYED, INDICATE:  Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Proposed  Existing Proposed  Exist Proposed						; .	,	- i	VATER IN THE V	UFWAI
IF TREATMENT UNITS WILL BE EMPLOYED, INDICATE:  Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Existing Proposed  Proposed  Existing Proposed  Exist Proposed	;	٠,	-							1
IF TREATMENT UNITS WILL BE EMPLOYED, INDICATE:  Proposed  Existing Proposed  Proposed  Proposed  Existing Proposed  Proposed  Existing Proposed  Proposed  Existing Proposed  Proposed  Proposed  Proposed  Existing Proposed  Existing Proposed  Proposed  Existing Proposed  Propo		•					•			<u> </u>
INDICATE:  Proposed  Propo	•	UNIT		דומט	Γ					ABLE !
Laboons, Cooling Towers, Spray Ponds, Etc.)  ESSENTIAL DIMENSIONS  Length, Width, Area, Etc.)  VATER APPLIED TO UNIT	cisting oposed		- (		=	o.	EMPLOYE	VILL BE EM		į.
Length, Width, Area, Etc.)  WATER APPLIED TO UNIT						-	, Etc.)	ray Ponds, Et		1
Length, Width, Area, Etc.)  WATER APPLIED TO UNIT				,		÷	. <u></u>			;
Gpm  Temperature (Deg. F.)  Gpm  Temperature (Deg. F.)  Gpm  Temperature (Deg. F.)  BY EACH UNIT  Btu/Hr										
Temperature (Deg. F.)  VATER LEAVING UNIT  Temperature (Deg. F.)  BY EACH UNIT  Btu/Hr  Btu/Hr									dth, Area, Etc.)	ength, Width,
Temperature (Deg. F.)  WATER LEAVING UNIT  Temperature (Deg. F.)  BY EACH UNIT  Btu/Hr  Btu/Hr		**				pm			PLIED TO UNIT .	ATER APPLI
Temperature (Deg. F.)  BY EACH UNIT Btu/Hr		,	·					•		
Temperature (Deg. F.)  BY EACH UNIT Btu/Hr						pm	(		AVING UNIT	ATER LEAVI
HEAT DISSIPATED Btu/Hr								-		
	•		:			tu/Hr			IIPATED	EAT DISSIPA
TOTAL ALL BIU/Hr UNITS  HIZI	20086	ARZ								

### 7075 pH and Redox Receiver

C2 1121-DS



- Low-cost instrument for industrial pH or Redox measurements
- Dual alarms can initiate control action
- Signal lights for indicating alarm conditions
- NEMA-12 case
- Voltage output matches most recorders
- Used with transmitter-electrode system
- Panel, pipe or wall mounting

The 7075 Receiver is an inexpensive, simplified instrument especially designed to provide low-cost measurement and/or control of pH or redox in industrial processes. The pH or redox measurement is continuously displayed on a high-visibility black-on-yellow scale. Red signal lights on the front panel indicate when a high- or low-alarm condition has been reached. Two independently set alarm/control relays can operate an external alarm or initiate control action. A

front-panel knob permits standardization and putting the instrument on "Standby"

Two standard output ranges—0 to 1 and 0 to 10 volts—can be used with most recorders or auxiliary devices such as L&N's 7080 Alarm/Control Modules and 099230 Isolated Current Output Modules (see Data Sheets C12.1390 and C12.1391 respectively).

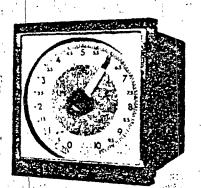
This instrument is housed in a NEMA-12 case which is dust-proof, splash-proof and corrosion resistant A universal mounting—for wall, pipe or panel mounting—is included with the instrument.

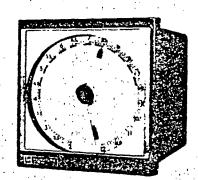
The 7075 Receiver is used with L&N's 7773-1, 7776-1, 7779-3 and 7758-1 Transmitter-Electrode Mountings. These mountings provide shielding which protects the measurement signal from common-mode, "ground loop" or RF interference, and guarding to provide protection against signal downgrading due to humidity or moisture. The mountings permit measurements in grounded or ungrounded solutions; wiring between the transmitter and Receiver can be over long distances using ordinary unshielded cable. For a complete least scription of these mountings, see Data Sheets D2.1118-DS, D2.11131-DS, D2.1119-DS and D2.1121-DS.

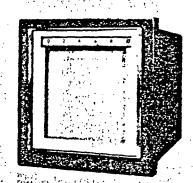
LEEDS & NORTHRUF

### \$ 79domax° H Indicators, Recorders and Controllers for remote monitoring of pH

· C2.1401 • 1969







Remote monitoring of pH is desirable for many applications in production processes and plant wastes. For such requirements, Speedomax H instruments, used with a high-impedance transmitter, such as the L&N pH monitor, are providing economical and reliable answers, recording or indicating pH values.

These indicators, recorders or controllers offer wide flexibility, since the transmitter with continuous indication can be located near the point of measurement, thile the recorder is mounted in a remote area. Alarms, ignals, and remote indicators can be operated by the recorder, or it can be equipped to operate one of a variety of automatic controls to maintain a pre-set pH value.\*

A CHOICE OF MODELS The Model R Indicator has a large black pointer which continuously indicates the measured value on a circular scale, 23" in calibrated length.

The Model R Recorder not only indicates on a scale of the same calibrated circumference, but records on a round chart having an overall diameter of 8" and a calibrated radius of 3". Chart speed may be one revolution in 8 or 24 hours, as specified.

The Model S Recorder indicates the measured value on a straight scale and records it on a strip chart  $6\frac{1}{2}$ " in calibrated width. The chart paper travels over a flat plate so that notes can be jotted on it without interrupting operation. A  $7\frac{1}{2}$ " section of chart is always in view.

The Multi-point Recorder logs the output from several pH monitors.

DEPENDABLE POTENTIOMETER CIRCUIT For pH or millivoltage measurements, the electronic null-balancing Speedomax H instrument is supplied as a d-c potentiometer. Three standard chart ranges plus other special ranges are available for pH measurements. If field con-

\*Close control of process pH depends, to a great extent, on conditions present in individual applications. Since L&N components for an integrated stem for pH control include a variety of control devices, recorders, indicases, preamplifiers and electrodes, inquiries are invited from which control ecommendations can be made.

version of one range to another is desirable, it's simple to replace the indicating scale and range card.

The Speedomax H instrument is housed in a sturdy, cast aluminum case only 12" high x 11" wide. The door, with glass window, has a rubber gasket to keep out dirt.

All external leads are brought to a terminal board accessible from the rear of the instrument. No field connections need be made within the instrument—internal components are not exposed to accidental damage during installation.

### **Features**

TYPE—Indicating recorder (round or strip chart record) or indicator (no record). Employs solid state electronic amplification of unbalance and a reversing motor to effect balancing action. For use with 7070 pH Monitor.

MEASURING CIRCUIT-D-c potentiometer.

CHART RANGE—0 to 10 pH, 2 to 12 pH, or 6 to 13 pH uniform unmarked charts available for other ranges upon request.

INDICATING SCALE—Model R: circular, 23" calibrated circumference. Model S: straight, 6½" calibrated width.

**RECORD**—Continuous line. Model R chart width, 3° calibrated radius; Model S, 6½° calibrated width.

**SPAN STEP-RESPONSE-TIME RATING** — 5 seconds, nominal, full scale. Also available for 1 second, nominal.

CHART SPEED—Model R: one revolution in 8 or 24 hours, or in 48 minutes, as specified. Model S: any of 18 single speeds ranging from 1" to 480" per hourmore than 100 switch-selected, two-speed combinations, 360"/hr maximum.

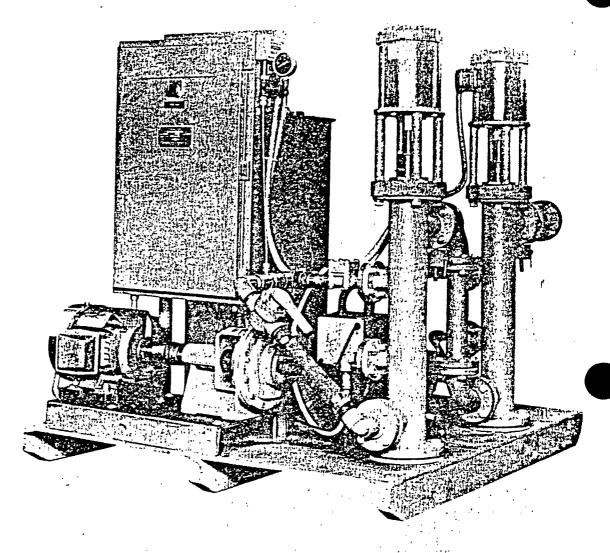
**MEASURING-CIRCUIT CURRENT SOURCE** — Supplied by a cline, rectified, and regulated by Zener-diode circuit.

POWER SUPPLY—120 volts, 60 or 50 hertz, as specified 20087 CASE—Cast aluminum, 12" high x 11" wide x 13" deep with gasketed door.



### FINALIZER





INDUSTRIAL'S all new 800 series of inorganic wasteFINALIZERS\* embodies a revolutionary new concept of total-in-line treatment. Compact and efficient, these new systems are an integral segment of INDUSTRIAL'S new "Building-Block" approach to sane and safe waste treatment. Using the "Building-Block" approach, it is possible to treat one waste source at a time and yet adopt a long range waste treatment plant plan that assures the customer that each treatment segment, when and if it is purchased, will dovetail exactly with the last segment installed.

INDUSTRIAL











500

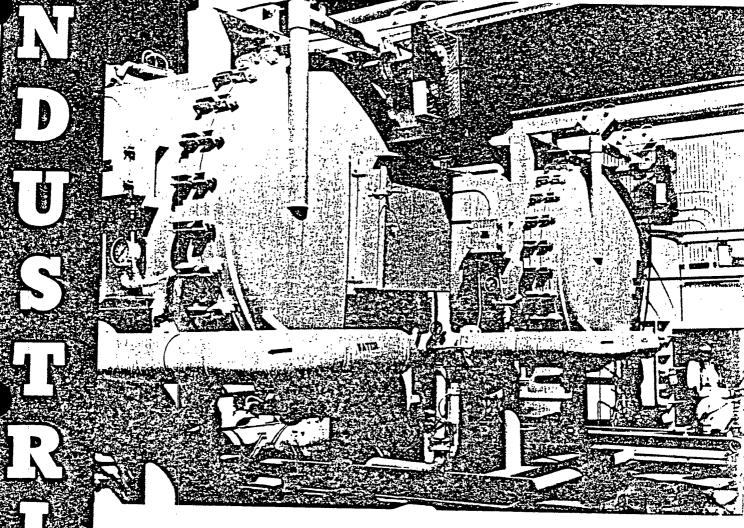








-INDUSTRIAL FILTER & PUMP MFG. CO. 5900 OGDEN AVENUE, CICERO, ILLINOIS 60650



## HORIZONTAL

### PRESSURE FILTERS

JNDUSTRIAL's 122 design is a highly versatile "work horse". Filter leaves are interchangeable and are individually removable. Experienced selection by our Sales Engineers from a tremendous program of options insures equipment tailored to your process.

INDUSTRIAL

















100

200

300

400

500

600

700

800

INDUSTRIAL FILTER & PUMP MFG. CO. 5900 OGDEN AVENUE, CICERO, ILLINOIS 60650

# SPECTRUM CONTROL INC. SAEGERTOWN BOROUGH, CRAWFORD COUNTY

### EROSION AND SEDIMENTATION CONTROL PLAN: N/A

The entire treatment system will be installed inside the existing manufacturing plant and therefore no soil movement will be involved in this project.

# SPECTRUM CONTROL INC. SAEGERTOWN BOROUGH, CRAWFORD COUNTY

### POLLUTION INCIDENT PREVENTION PLAN

General: Spectrum Control Inc. conducts their plating operation in one room in the Saegertown plant. All chemicals are either stored within this room or in a metal outbuilding close to the plant. There is no history of pollutional incidents at the plant.

Plant Operation: Chemicals are received in 55 gallon drums or smaller containers and are placed within the plating room or metal outbuilding for storage. Inventory is kept only for regular needs, and no large stockpiles are kept at the plant. There are no floor drains in the plating room, and there are only two entryways out of which floor spillage could leave the building. A raised retaining ridge will be placed across the two doorway ramps to provide positive containment in case a spill would occur inside the room. Only dry, non-acid chemicals, such as potassium cyanide and oakite cleaner, are stored in the metal outbuilding. The building has a wood floor without drains and is raised 8-inches above ground level. The building is kept locked.

Breakdown Procedures: Certain portions of the treatment system can be carried out during breakdowns, depending on the part of the system that is down. The cyanide batch treatment can be performed AR200875

by the manual addition of NaOII and NaClO with the operator paying strict attention to the pH and ORP meters. The neutralization provided by the Finalizer and the solids removal provided by the filter, however, are dependent upon the proper working condition of these units. If either the Finalizer or the filter are out of order, the plating lines will be stopped.

Maintenance and Inspection: Maintenance and inspection of the pumps and treatment units will be conducted in accordance with the manufacturers' recommended schedule. The entire system will be inspected at least once per week for any apparent weaknesses in plumbing, tankage, or working equipment.

Personnel Training: Due to the close tolerance and high standards required for the finished product, only trained personnel operate in the plating room. Their training will include the proper operation, maintenance, and inspection of the treatment system, as well as their being apprised of the hazards of accidental spills from all possible sources, the importance of preventative measures, and the procedures for notifying supervisory personnel of accidents. The training will also include how to contain a spill and how to collect and treat it, labeling and instruction on the proper arrangements of valves and switching, and the problems that could occur as a result of improper piping installation, and inadequate inspection and maintenance procedures. The two cyanide batch tank discharge valves will be clearly marked with a warning to "keep 2008."

closed until treatment is complete" and the "open" and "closed" positions will be clearly marked. Training will include the simulation of pollution incidents and contingency plan procedures. The employees in the other areas of the plant will receive basic training in the hazards of accidental spills, the importance of preventative measures and who to notify in case an accident occurs.

Communications and Chain of Command: All plant personnel will be encouraged to present a list of possible pollutional incidents, and a contingency plan for dealing with the most probable types will be developed. If an incident occurs, the Plant Foreman will be notified. He will be responsible for the treatment system and will have received the full training program. The Foreman will notify the hanufacturing Manager and the Chief Engineer.

Notification of Pollution Incidents: Upon the occurrence of a pollution incident, the Chief Engineer will promptly notify the Regional Sanitary Engineer of the Pennsylvania Department of Environmental Resources, Meadville Office, Telephone 724-8550. If the Chief Engineer is absent, the Manufacturing Manager will assume this Fesponsibility.

External Factors: External factors should not cause a pollution incident at the plant. If an electrical outage occurs, the plating line will be stopped and all water turned off. Since the treat 200877

ment plant discharge is by pump through the filter, the discharge will stop whenever the electrical pump stops. The entire system is inside the plant and storage is inside the plant or the locked metal building, and therefore they should be safe from ordinary vandal or strike damage. The plant and the metal building are above flood level.

<u>Pollution Incident History</u>: There have been no pollution incidents at the plant.

Clean-up Services and Equipment: Spectrum Control will be equipped with neutralizing and treatment chemicals and should be able to contain and clean up any spills or leaks with their own personnel. When notifying the Regional Sanitary Engineer of the Pennsylvania Department of Environmental Resources, they will request his assistance and recommendations if needed.

Spectrum Control Inc.
Saegertown Borough, Crawford County
Pollution Incident Prevention Plan
November 28, 1979

Revised Notification Procedure: Upon the occurrence of a pollution incident, the Chief Engineer will promptly notify the Regional Sanitary Engineer of the Pennsylvania Department of Environmental Resources, Meadville Office, Telephone 724-8550; the Pennsylvania Fish Commission Waterways Patrolman Warren Beaver 683-4121 or William Mantzell 789-2055; and the U.S. Environmental Protection Agency 800-424-8802.

Richard A. Deiss, P. E. Richard A. Deiss & Associates Consulting Engineers Meadville, Pennsylvania

AR200879



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES



1012 Water Street
Meadville, Pennsylvania 16335
Telephone: A.C. 814/724-8550

SEP 14 1981

Subject: NPDES Permit #PA 0100307

Spectrum Control Incorporated Saegertown, Crawford County

Mr. Jack Baker Vice-President Engineering Spectrum Control Incorporated 600 Erie Street Seagertown, Pennsylvania 16433

Dear Mr. Baker:

Receipt of your application for the renewal of your NPDES permit is hereby acknowledged.

Because of staff limitation, there will be some delay in processing the application. However, we will make every effort to process it as soon as possible.

The regulations regarding NPDES permits have been amended and now stipulate that the terms and conditions of an expired permit are automatically continued pending issuance of a new permit. Therefore, if your permit has expired or expires prior to reissuance, you are required to comply with the provisions of your present permit.

Your cooperation is appreciated.

Sincerely,

Miller Lock

David E. Milhous, P.E., Chief

Permits and Grants Section

Bureau of Water Quality Management

DEM/csw



SPECTRUM CONTROL INC. 600 ERIE ST. SAEGERTOWN, PENNSYLVANIA 16433 2 814/763.3211

MATERIAL SCIENCES DIVISION

November 19, 1981

Department of Environmental Resources Bureau of Water Quality Management 1012 Water Street Meadville, PA 16335

Attention:

David E. Milhous, Chief, Facilities Section

Subject:

Revisions to application for renewal of NPDES Permit #0100307, submitted 9/9/81

Dear Mr. Milhous:

Enclosed are triplicate copies of page 3 and page V-2 of Form 2C which contain additional information from our original submission.

Also, triplicate copies of radioactivity analytical report and analytical report on uranium and strontium are enclosed.

Please replace the original pages with these corrected or additional data copies.

Very truly yours, SPECTRUM CONTROL, INC.

Jack Baker

V.P. Engineering

AR200881

1	٠.	INTAKE	AND	<b>EFFLUENT</b>	CHARAC	TERISTIC

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided, NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-B.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your Outfall 001 only

1. FOLLUTANT	Z. SOURCE	1. POLLUTANT	2. SOURCE
Strontium Uranium Zirconium	Rinse water from ceramic etching process		
•			
,	,		

/I. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you do or expect that you will over the next 5 years use or manufacture as an intermediate or final product or byproduct?

No (so to Item VI-B)

Cadmium Copper Nickel Silver Cyanide

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

X YES (complete Item VI-C below)

NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

VI.C - Outfall 001: We put our plating rinse water treatment system into operation in mid-May 1981. The system was designed to treat rinse water from two plating lines; 1-ceramic capacitor; 2-copper shells and terminals. Until we have experience in operating the equipment, we have limited our production to the ceramic capacitor plating line and therefore our flow is only a fraction of our permitted flow. We have reported representative actual usage to date. Data in Item V.

As we gain experience in operating our treatment system, we intend to increase our flow volume and our pollutant mass will naturally increase although concentration should not increase. We fully expect to porthon our original permit limits of flow, mass and concentration for the next 5 years but it will a period of time to get our system at full production capacity.

(see attached sheet)

Fin, Total 40-31-6) Janganesa, 39-96-5) 39.95-4) olybdenum, lagnasium, on, Total 40-48-4) toron, luminum, Sulfine SO<sub>3</sub>) 265-45-3) s) ulfate 50() 308 79-8) Radium i, Total hosphorus P), Total 23-14 0) # = md iltropen, al Organic Nj NT AND AS NO. available) 4.Form 3510-2C (6-8 39-98-7) 40-39-3) Alpha, 40-32-6) Junior ≥ vom, 29.90-5) iurfactants ₽ Redi e Bac adioactivity HENRY SENT × \* MARK 'X' × × × × × × × × ⋈ × × × × × × × × × × 8. MAXIMUM DAILY VALUE CONCENTRATION 1.4-.11 **\30** 30 500.0 21.8 <1.0 9 <0.20 <0.05 <0.2 <0.2 0.5 <0.01 0.04 5.48 0.14 0.4 0. 0.5 8.2 +ا; س 1135.0 <.06 <. 02 49.5 (a) MASS 11.4 .0032 12.45 ,068 <2.3 <.11 <.45 <2.3 <.4 4.4 1.0 5.0 .02 . 23 . .09 • 32, • 9 CONCENTRATION II MASS CONCENTRATION (1) HASS . YEES 3. EFFLUENT ٠. CONCENTRATION (i) PAGE ٠<u>٠</u> ٢ . a. CONCEN-Sage A. UNITS U ùdd ppm ppm ppm Ci/ ppm ppm ppm ppm Ci ppm ppm ppm ppm ppm ppm ppm ppm ppm P WYSS Ξ Ξ ㄷ 8m gm gm gm gm gm 8m gm 8m 811 gm gm <u>열</u> gm gm 엽 gm Ci Ci Ci Ci CONCENTRATION ... B. INTAKE (optional) APHRASE VERME AR200883 ANAL-

CONTIN

PAGE V - 3

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335 (814) 724-6242

Karen C. Eglinton Laboratory Manager

Mr. Jack Baker
To: Spectrum Control
600 Erie Street
Saegertown, PA 16433

Date Sample(s) Received: 8/5/81/32

#### ANALYTICAL REPORT FORM

Parameter	Sample .
Alpha pCi/L	<9.
Beta pCi/L	30 ± 3
Total Radium RA-223 pCi/L Ra-228 pCi/L	- .<30 <9
Total 226 Radium pCi/L·	1.4 ± .11

Robert V. Taglierion ADMINISTRATIVE ASSISTANT

10/6/81

/dt

AR200884

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

Jack Baker To: Spectrum Control 600 Erie Street Saegertown, PA

16433

Date Sample(s) Received: 10/20/81/32

P.O.#: 23939

#### ANALYTICAL REPORT FORM

	Parameter	.:	Sample
	Copper mg/L		0.16
•	Nickel mg/L	:	3.17
	Silver mg/L		0.06
	Tin mg/L		<1.0
	Iron mg/L		0.18
	Barium mg/L		0.06
	Free Cyanide mg/L	•	<0.006
	Total Cyanide mg/L		0.012
	Oil & Grease mg/L	-	. 10
-	Suspended Solids mg/L		<0.1
	Fluoride mg/L		7.40
	Uranium mg/L		<0.25
	Strontium mg/L		0.45

11/5/81

/mh

AR200885

A,I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health Clinical Laboratory Permit No. 561



#### SPECTRUM CONTROL INC. 600 ERIE ST. - SAEGERTOWN, PENNSYLVANIA 16433 # 814/763.32

MATERIAL SCIENCES DIVISION

September 9, 1981

Department of Environmental Resources Bureau of Water Quality Management 1012 Water Street Meadville, Pennsylvania 16335

Attn: David E. Milhous, Chief Facilities Section

Dear Mr. Milhous:

Enclosed are the triplicate copies of Standard Form I and Form 2C, and a filing fee check of \$500.00 for renewal of our NPDES permit.

I would like to point out that we have operated our plating rinse water treatment system for only a short time (since mid-May 1981). The flows and mass reported on the forms represent very limited production as we are gaining experience in operating the equipment. We expect to get to the production flows as limited in our original permit and therefore we would like to retain the original permit discharge limitations.

Also, we are not adding any materials to our non-contact cooling water.

Sincerely yours, SPECTRUM CONTROL, INC.

Jack Baker

V.P. Engineering

AR200886

Please print or type in the unshaded areas (fill—in areas are spaced for elite type, i.e.	, 12 characr =/inch),	OTENIO DE LA CONTRACTION DEL CONTRACTION DE LA C	**************************************	ed OMB No. 158-R0175
FORM	GENERAL INFO	ROTECTION AGENCY ORMATION	. EPA I.D. NE	
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EPA I.D. NUMBER	/	//////		ed label has been provided, at gnated space. Review the info
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			appropriate f	ill—in area below. Also, if any distance to
V FACILITY V MAILING ADDRESS	PLEASE PLACE LABEL	W THE SPACE	left of the l	abel space lists the information
	PLEASE PLACE LABEL	- IN THIS SPACE	proper fill—i	area(s) below, if the label
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VI. FACILITY			items if no in	ppleted regardless). Complete bell has been provided. Rafer
LOCATION			tions and for	ons for detailed item descr r the legal authorizations un
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II. POLLUTANT CHARACTERISTICS				A Maria amang Maria Maria
INSTRUCTIONS: Complete A through guestions, you must submit this form a				
if the supplemental form is attached. If	you answer "no" to each question	on, you need not submit an	y of these forms. You may	ay answer "no" if your activity
is excluded from permit requirements; se	MARK 191	e sizo, Section D of the ins	tructions for definitions	OT DOID-TACED TERMS.
SPECIFIC QUESTIONS		HED SHEET SPE	CIFIC QUESTIONS	YES NO ATTAC
A is this facility a publicly owned which results in a discharge to wa			facility (either existing outrated animal feeding of	
(FORM 2A)	- Alegan Carallette State Control of the Control of	nic aquatic animal p	roduction facility which is of the U.S.? (FORM 2	results in a
C is this a facility which currently res	ults in discharges	D. Is this a proposed	facility (other than the	ose described
to waters of the U.S. other than the A or B above? (FORM 2C)	1/2 A A A A A A A A A A A A A A A A A A A	waters of the U.S	which will result in a 7 (FORM 2D)	23 24 37
E. Does or will this facility treat, sto	re, or dispose of	municipal affluer	ou inject at this facility it below the lowermost.	etratum con-
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Do you or will you inject at this facility water or other fluids which are brou	ity any produced	H. Do you or will y	ou inject at this facility f	luids for spe-
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oil or natural gas, or inject fluids for hydrocarbons? (FORM 4)	storage of liquid	wintion of fossil fue (FORM 4) 特別	lyor recovery of geother	rmal energy?''
side is this facility a proposed stationary المادية	source which is	, J. is this facility a	proposed stationary sou	irce which is
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per year of any air pollutant regular Clean Air Act and may affect or I		Air Act and may	r pollutant regulated und affect or be located in a	
III. NAME OF FACILITY		erea? (FORM 5)		
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IV. FACILITY CONTACT	& TITLE (last, first, & title)		B. PHONE (area co	de & no.)
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2 JACK BAKER \		45	45 - 48 45 - 57	52 55
V. FACILITY MAILING ADDRESS				
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3600 ERIE ST	<del></del>	41		
B. CITY	OR TOWN		IP CODE	
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VI. FACILITY LOCATION		48   41   41   41		
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600 ERIE ST	· · · · · · · · · · · · · · · · · · ·			
B. COUNTY	NAME		1	
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c. city c	PRIOWN		IP CODE F. COUNT	Wn)
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PA Form 3510-1 (6-80)	•	(15)		CONTINUE ON REVER

II. SIC CODES (4-digit, in order of priority)		/	B. SECOND	
3679 Mfg. electro	nic, components	<sup>c</sup> 7 34 7 1 (specify) e1	ectroplating	•
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III. OPERATOR INFORMATION	A. NAME	Miles and Miles or The Miles and Control	В.	anne nemeri stad j
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EXISTING ENVIRONMENTAL PERMITS  A. NPDES (Discharges to Surface Water)	D SED (Air Emissions )	rom Proposed Sources		
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C. RCRA (Hazardous Wastes)	E. OTHER	(specify)	ecify)	English State
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Attach to this application a topographic of the outline of the facility, the location of reatment, storage, or disposal facilities, water bodies in the map area. See instruction	each of its existing and pro and each well where it inject	posed intake and discharges fluids underground, Incl	e structures, each of its haz	zadous was har
I. NATURE OF BUSINESS (provide a brief de	cription)			
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Manufacture ceramic	capacitors; ele	ectroplate silv	ver, nickel and	đ
tin electronic compe	onents.			
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II. CERTIFICATION (see instructions)				
certify under penalty of law that I have attachments-and that, based on my inqu application, I believe that the information alse information, including the possibility	iry of those persons immed is true, accurate and comp	diately responsible for obta	sining the information con	ncined in the
NAME & OFFICIAL TITLE (Type or print)	B. SIGNATU	RE / /	C. DATE	SENED
Jack Baker, V.P.Engine	ering	eal Babi-	411	2/01
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OMMEITS FOR OFFICIAL USE ONLY		mark - with the bridge of the state of the same last of the same	The second secon	
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Form 3510-1 (C-80) REVERSE		16) *U.S	GOVERNMENT PRINTING OFF	TE: 1980—323.829.63

Margarit & M. Bacter, Koteny Public .

SEPA

# U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS

Contact their street as we

Consolidated Permits Program

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each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. OUTFALL NUMBER \_\_(llst) B. LATITUDE C. LONGITUDE D. RECEIVING WATER (name) L. MIN. I. SEC. t. DEG. Z. MIN. 1. DEG. 001 41 42 45 80 08 46 FRENCH CREEK VIA STORM SEWER 002 41 45 42 80 08 46 FRENCH CREEK VIA STORM SEWER

#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfell, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

		3. TREATMENT		
a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO	DDES FRO LE 2C-1
ELECTROPLATING RINSE	10,000 GPD	CYANIDE OXIDATION	2-B	
	•	HEAVY METAL PRECIP.	2 <b>-</b> C	
		FILTRATION	1-C	1-Q
NON CONTACT COOLING	7,200 GPD	NONE	N/A	1
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	ELECTROPLATING RINSE  NON CONTACT COOLING	ELECTROPLATING RINSE 10,000 GPD  NON CONTACT COOLING 7,200 GPD	ELECTROPLATING RINSE  10,000 GPD  CYANIDE OXIDATION  HEAVY METAL PRECIP.  FILTRATION  NON CONTACT COOLING  7,200 GPD  NONE  AR20	AR200890

ONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or ad schedules for construction.

[]MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

		CHARACTE		A STATE OF THE PARTY OF	maken araban s	to desirable to the same of		100 TO 10	And the same of the same
	3							CONTINUE OF THE PARTY OF THE PA	
 421741	VE AND I	 · CU A D A CT E	DISTIFS				-	B E	

A, B,	& C:	See instructions before proceeding -	Complete one set of tables for each outfall	- Annotate the outfall number in the space provided.
	***	"NOTE: Tables V-A, V-B, and V-C at	e included on separate sheets numbered V-1	through V-8.

ise the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be scharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your

1. POLLU	TANT	2. SOURC	E	1. POLLUT	TANT .	2. SOURC	E
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A. Is any pollutant listed in Item V-C a substance or a c	component of a substance which you do or expect that you will over the next 5 years use	or manufacture
🛴 as an intermediate or final product or byproduct? 🚉		a la la la la la la la la la la la la la
વિષ્કૃતિનું સંસ્થિતિન દુશિન કર્યું કર્યા કે ત્યારા માર્ચિક હતા.	表的最大的问题来看到这些的意识的意思,就是是自己的自己的意思,就是这个问题。这一点是一个时间的自己的一个时间的意思。	a in a temperatura
YES (list all such pollu	utants below) No (go to Item VI-B)	TO PARTY OF SERVICES

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V? 

YES (complete Item VI-C below)

NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

VI.C - Outfall OOl: We put our plating rinse water treatment system into operation in mid-May 1981. The system was designed to treat rinse water from two plating lines; 1-ceramic capacitor; 2-copper shells and terminals. Until we have experience in operating the equipment, we have limited our production to the ceramic capacitor plating line and therefore our flow is only a fraction of our permitted flow. We have reported representative actual usage to date. Data in Item V.

As we gain experience in operating our treatment system, we intend to increase our flow volume and our pollutant mass will naturally increase though concentration should not increase. We fully expect to be within ar original permit limits of flow, mass and concentration for the new 92 5 years but it will a period of time to get our system at full production capacity.

(see attached sheet)

ou have any knowledge or reason to bel ving water in relation to your discharge	ieve that any ogical test for the control of the co		•	*	* 3
YES (identify the t	est(s) and describe their purp	oses below)	NO (go to	Section VIII)	_ <del></del>
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y of the analyses reported in Item V	performed by a contract laboratory, and telephone number ach such laboratory or firm b	and the state of the same of the same	□NO (go to S		A HARAGA
y of the analyses reported in Item V	The second second	ber of, and pollutants pelow)	NO (go to S		ANTS ANALYZ
A. NAME	address, and telephone numi ach such laboratory or firm b B. ADI	ber of, and pollutants elow) DRESS	C. TELEPHONE (area code & no.)		ANTS ANALYZ
y of the analyses reported in Item V parties (list the name, analyzed by, e	address, and telephone numb ach such laboratory or firm b	ber of, and pollutants clow)  ORESS	□ NO (go to S		ANTS ANALYZI
y of the analyses reported in Item V position in It	address, and telephone number such laboratory or firm b	ber of, and pollutants pelow)  ORESS	C. TELEPHONE (area code & no.)		ANTS ANALYZ (list)
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y of the analyses reported in Item V p  WYES (list the name, analyzed by, e  A. NAME  Col Laboratories  FICATION  under penalty of law that I hav	P.O. Box 55 Cotton Road Meadville, P	press  A 16335	C. TELEPHONE (area code & no.)  (814)  724-6242	itted in this app	(list)
FICATION  under penalty of law that I havents and that, based on my inquiries is true, accurate and complete	P.O. Box 55 Cotton Road Meadville, P	press  A 16335  The dam familiar with inmediately responsible.	C. TELEPHONE (area code & no.)  (814)  724-6242  the information submite for obtaining the information the information of the i	itted in this app	flication and a lieve that the i
FICATION  under penalty of law that I havents and that, based on my inquinis true, accurate and complete y of fine and imprisonment.	P.O. Box 55 Cotton Road Meadville, P	press  A 16335  The dam familiar with inmediately responsible.	C. TELEPHONE (area code & no.)  (814)  724-6242  the information submitted for obtaining the interpretation of	itted in this app formation, I belialse information	olication and a lieve that the in, including th
y of the analyses reported in Item V p	P.O. Box 55 Cotton Road Meadville, P	press  A 16335  The dam familiar with inmediately responsible.	C. TELEPHONE (area code & no.)  (814)  724-6242  the information submitted for obtaining the infalties for submitting for subm	itted in this app	olication and a lieve that the in, including th
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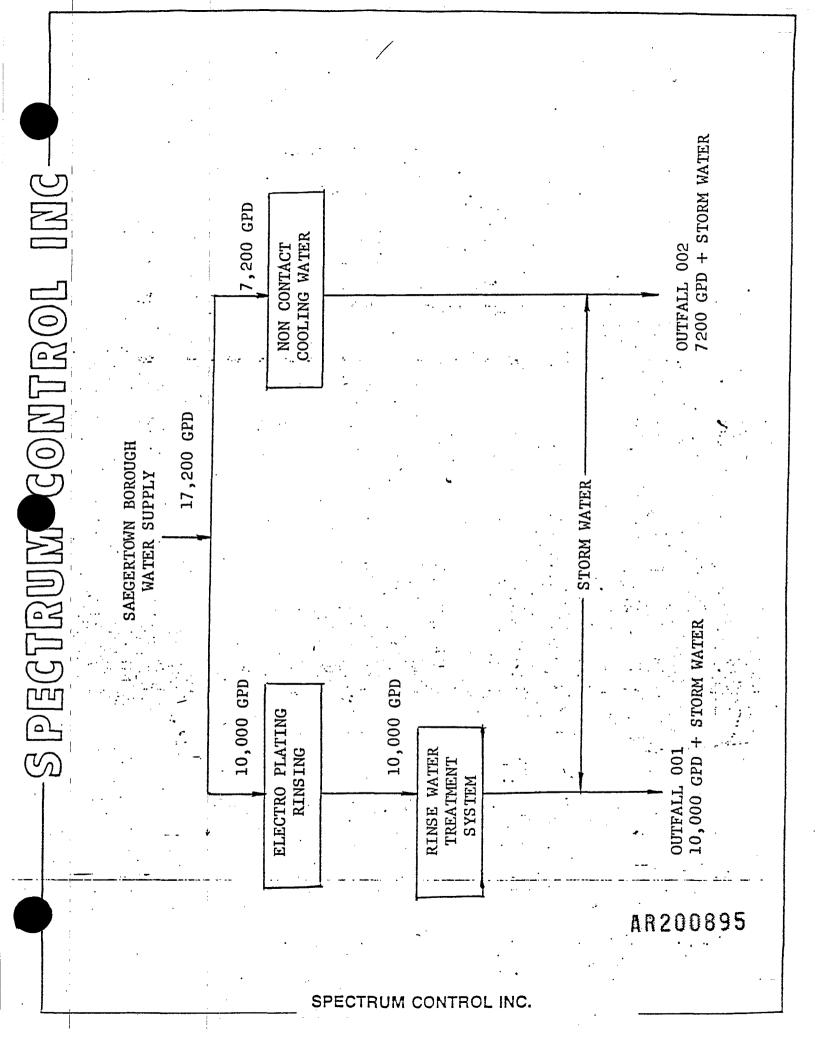
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BIOLOGICAL TOXICITY TESTING DATA

- P nr4 -, -

VI. C - Outfall 002: We expect Outfall 002 to increase to about 3 times the flow reported in Item V, due to growth.

Our current permit allows for 4 times the current reported flow.



EASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of is information on separate sheets *(use the same format)* instead of completing these pages.

E INSTRUCTIONS.

EPA I.D. NUMBER (copy from Hem 1 of Form I)

DATION SET 4430

Blochemical Xygen Demand BOD) 3. Ammonia (as N) I. Total Suspended folids (TSS) ART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. 1. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) POLLUTANT MUNIMUM VALUE VALUE VALUE B. MAXIMUM DAILY VALUE Notive in Tenes Not 36  $\Delta$ 2°.8 Ś က် .9 , N N available 0 83 23 600 MUMIXAM •  $\infty$ (z) MARS ů MUMINIMUM VALUE VALUE VALUE b. MAXIMHM 30 DAY VALUE CONCENTRATION 27.7 30.0 82.0 **<2.3** 6.4 2. EFFLUENT MUMIXAM (2) MASS C.LONG TERM AVEC VALUE CONCENTRATION VALUE VALUE VALUE (E) MARIO PAD065614430 ANALYSES Sec. 5. 465 ــــا mg/1 mg/1mg/1mg/1mg/1A. CONCEN-STANDARD UNITS gallon (specify if blank) . റ് റ് P.W.VS gm gmgm gm 611 Form Approved OMB no. 158-R0173
OUT FALL NO.
OCTIONS for additional description VALUE VALUE CONCENTRATION VALUE A LONG TERM (1) MASS ANALYSES

PART æ Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements. i. pH

h. Temperature

(summer)

g. Temperature (winter)

f. Flow

: To

. OC)

OXYGEN Demand . Chemical

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1. PULLUT-	2. MARK 'X'	x x			. 3, E	3. EFFLUENT		16 14 The Co.	-:1	4. UNITS	ITS	5. INT	5. INTAKE (optional)	
CAS NO.		b. ag	B. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE   C.LONG TERM AVEG. 1	BY VYLUE	WEST DNOTE	PARE VALUE	VALUE d NO. OF	CONCEN.		A LONG TERM		NO. 0
(if available)	8 N N N	2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	CONCENTRATION	(z) MASS	CONCENTRATION	[2] HASS	(i)	[2] MASE	YSES.	TRATION D MASS		CONCENTRATION (1)		YSES
a. Bromide - (24959-57-9)		×			, ,									
b. Chlorine, Total Residual	×	`	<.1	<.2						ppm	gm		·	
c, Color		×	, :	• C1	·		-			** ***				
d. Fecal (1) (Collform		×		; ,			·			•				
e Fluoride (16984-48-8)	×	í	8.3	18.8						ppm	gm			
f. Nitrate- Nitrite (as N)			9.8	22.2	-					ppm	gm		•	
EPA Form 3510-2C	-2C						PAG		•			CON	ON REVERSE	ERSE

ON REVERSE

q. Boron, Total (7440-42-8) (7439-95-4) u. Molybdenum, r. Cobalt, Tr (7 48-4) o. Aluminum, Total (7429-90-5) k. Sulfate (as SO<sub>d</sub>) (14808 79-8) I. Phosphorus (as P), Tutal (7723-14-0) g. Nitrogen, Total Organic ANT AND CAS NO. (If available) w. Tin, Total (7440-31-6) a. Iron, Total (7439-89-6) p. Barlum, Total (7440-39-3) m. Suffite (at \$03) (14265-45-3) 2. Total h, Oil and Grassa l. Suffide (as S) (3) Radium, Total (2) Beta, Total (1) Alpha, Total EPA Form 3510-2C (6-80) x. Titanlum, (7439-96-5) v. Manganese, Total n. Surfactants (7440-32-6) (7439-98-7) t. Magnesium, . Radioactivity 'n × × × × K. X. A WAR × × × × × × × × × × × × × × × × × CONCENTRATION #. MAXIMUM DAILY VALUE 500.0 <1.0 <0.05 21.8 **<1.0** <0.2 <0.2 <0.20 <0.01 0.5 0.100.140.04 5.48 0.4 0.5 3 ٠. 1135.0 \* (s) mass 49.5 11.4 12 Λ <.ll <.45 <a>2</a>, 3 4.4 4.4 5.0 <2.3 1.0 .02 45 .09 ·32. .9 23 b. MAXIMHM 30 DAY VALUE C.L. CONCENTRATION 3. EFFLUENT (z) HARS ٠. PAGE V-2 rion (1) HASS YSES --- (a) MASS. ... いたが Ĭ, .... TRATION mdd i LAST A. UNITS ppm indd ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm SSVM 4 83 gm 8m gm gm gm gm gm gm gm gm gm gm gm gm gm gm ONCENTRATION (1) J S. INTA CONTINUE ON PAGE V - 3 AR2008 97 (2) MAKS tional) NO.OF ...

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ONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER

PAD065614430

Form Approved OMB No. 138-R0173

898

ART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions youth at test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required mark column 2-a (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

													•	
AND CAS		2. MARK 'X'	, , ]	S	3. E	3. EFFLUENT				4. UNITS	1TS .	5. IN 7	5. INTAKE (optional)	all
NUMBER	NO.	ATEST D. DE- C. ME-	B. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE	PPA VALUE	C.LONG TERM	Rypg. VALUE	NO.OF	. CONCEN-		AVERAGE VALUE		b. NO. OF
(atapitanti)	2017	SENT SENT	CONCENTRATION	(2) MOJ 88	CONCENTRATION	(2) MASS	CONCENTRATION	(z) MARS	YSES	TRATION	C M AS	(1) CONCEN-	(2) MARK	YSES YSES
IETALS, CYANIDE, AND TOTAL PHENOLS	E, AND	TOTAL PHE	NOLS											
M. A. nany, otal 0.36-0)	⋈.		<0.20	<0.545						mag	200			
'M. Arsenic, Total 7440-38-2)	×		` 0. 022	°°° 5050						ppm	gm			
M. Beryllium, otal, 7440-41-7)	×		<0.01	₹0. <sup>5</sup> 02						ppm	gm			
IM. Cadmlum, Fotal (7440-43 9)	×		<0.01	<0.02					·	ppm .	gm			
3M. Chromium, Fotal (7440-47-3)	×		<0.05	<0.11						ppm	gm			
3M. Copper, Total 7550 50-8)	×		<0.05	₹0 <u>₹</u> 11						ppm	gm	·		
7M. Lead, Total (7439-97-6)	×		<0.1	₹0\$2						ppm	gm			
8M. Mercury, Total (7439-97-6)	×		<0.0001	<0.0002				,	·	ppm	gm			
9M. Nickel, Total (744' '-0)	×		6.4	14.5						ppm	gm			
10M. Selenium. Total (7782-49-2)	×		0.05	0.11	-	-				ppm	gm		·	
11M. Silver, Total (7440-22-4)	×		0.13	0.30						mďď	P P P			
12M. Thaillum, Total (7440-28-0)	×		<0.50	<1.1			·			ppm	gm			.
13M. Zinc, Total (7440-66-6)	×		0.02	0505		,				ppm.	gm			
14M. Cyanide, Total (57-12-5)	×		0.26	0.59						ppm	gm		-	
15M. Phanois, Total	×		<0.01	\$0°.05	·					ppm	gm			
DIOXIN														
2,3,7,8-1 etra- chiorodibenzo-P- Dioxin (1764-01-6)		×	DESCRIBE RESULTS	JLTS					Ì					
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EPA Form 3510-2C

V PAGE V-5	CONTINUE ON PAGE V-5	00					V-4	PAGE				(6-80)	'A Form 3510-2C (
			gm	mg/1			,	L				×	1V. Methyl hloride (74-87-3)
			gm	mg/1				·		<.023	<0.010	×	POV. Methyl Promide (74-83-9)
			gm	mg/1						<.023	<0.010	X	19V. Ethylbenzene 100-41-4)
			gm	mg/1	·					<.023	<0.010	× .	J8V. 1,2-Dichloro- propylene ,542 75 6)
			gm	mg/1	·					<.023	<0.010	×	17V. 1,2-Dichloro- propane (78-87-5)
			gm	mg/1						<:023	<0.010	×	16V. 1,1-Dichloro- sthylene (75-35-4)
			gm	mg/1						<.023	<0.010	×	15V * 2-Dichloro- ath: 107-06-2)
			gm	mg/l						<.023	<0:010	×	14V. 1,1-Dichloro- ethana (75-34-3)
		•	gm	mg/1						<.023	<0.010	×	13V. Dichlora- difluoramethane (75-71-8)
			gm	mg/1						<.023	<0.010	X	12V. Dichloro- bromomethana (75-27-4)
			gm	mg/1						<.023 <sup>J</sup>	<0.010	×	11V. Chloroform (67-66-3)
			gm	mg/1						<:023	<0.010	X	10V. 2-Chloro- ethylvinyl Ether (110-75-8)
			gm	mg/1						<.023	<0.010	×	9V. Chloroethane (75-00-3)
			gm	mg/1						<.023	<0.010	X	8V. Chlorodi- bruinomethane (124-48-1)
			gm	mg/l		·				<.023	<0.010	×	7) lorobenzene (1 0-7)
			gm	mg/1	·					<.023	<0.010	×	6V. Carbon Tetrachloride (56-23-5)
			gm	mg/1						<.023	<0.010	×	5V. Bromaform (75-25-2)
	HTT	ARZ	gm	mg/1						<.023	<0.010	×	4V. Bis (Chloro- methyl) Ether (542-88-1)
	- 0 -	20	gm	mg/1			,			<.023	<0.010	×	3V. Benzene (71-43-2)
	703	120	gm	mg/1			•			<.227	<0.100	X	2V. Acrylonitrile (107-13-1)
		9	gm	mg/1	-					<-227	<0.100	X	1V. Acrolein (107-02-8)
YSES	(a) MARR	THATION		TRATION	YSES	(2) MASS	CONCENTRATION	(2) MASS GG	CONCENTRATION	(1) MASS CO	VOLATILE COMPOUNDS	- VOLATILE CC	GC/MS FRACTION
b. NO.0#	ERM	A LONG	b MASS	A. CONCE	d NO.OF	WABE. AYEN			b. MAXIMIJM 30 DAY VAC	4	. a. MAXIMUM DAILY VALUE	b at. Car.	NUMBER
onall	E (optional)	5	UNITS	4. 5				LUEN	3. EFFLUEN			2 MARK 'X'	1 . PULLUTANT

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The state of the s								<u>و</u>						कृ	ž
			gm	mg/1			:				<.057	<0.025			1A. 2,4,6-Tri- hiorophenol 38:06-2)
			gm	mg/1	:			۲			<.057	<0.025	1	×	108-95-2)
			gm	mg/1							<.057	<0.025		×	henol (87-86-5)
			gm	mg/1						,	<.057	<0.025	-	×	A. P.Chloro-M- resol (59-50-7)
			gm	mg/1						, . :1 C	.059	<0.026		×	A. 4-Nitrophenoi 100-02-7)
		·	gm	mg/1,	• -					1	<.057	<0.025		×	A. 2-Nitrophenol 18-75-5)
			gm	mg/1							<.568	<0.250		×	A. 2,4-Dinitro- nenal (51-28-5)
			gm	mg/1			·		·		<.588	<0.250	,	×	A. 4, litro-O- resol (u.34-52-1)
			gm	mg/1					-	/	<.057	<0.025		×	A. 2,4-Dimethyl- renal (105-67-9)
			· gm	mg/1		ŧ		,		·	<.057	<0.025		×	4. 2,4-Dichtoro- renol (120-83-2)
			gm	mg/1	-		·				<.057	<0.025		×	4. 2-Chipropheno 5-57-8)
												1	ACID COMPOUNDS	ACID	MS FRACTION
			gm	mg/1							<.023	<0.010		×	V. Vinyl Horide (75-01-4)
			gm	mg/1							<.023	<0.010		×	oromethane 5-69-4)
			gm	mg/1				-			<.023	<0.010		×	V. Trichloro- lylene (79-01-6)
			gm	mg/1							<.023	<0.010		×	Joroethane J-005)
			gm	mg/1	•						<.023	<0.010		×	V. 1 (r)-
			gm	mg/1							<. 0,23	<0.010		×	58
	Д		gm	mg/1							<.023	<0.010		×	V. Toluene 39-88-3)
	R2		gm	mg/1							<. Q23	<0.01,0		×	V. Tetrachloro- lylene (127-18-4)
	00		gm	mg/1			i				<.023	<0.010		×	lorosthans 3-34-5)
	90		gm	mg/1							<.023	<0.010		×	V. Methylens foride (75-09-2)
		THATION									nuèd)	VOLATILE COMPOUNDS (chntinued)	ATILE COM	- VOL.	MS FRACTION
NNO. OF	AC TEHW	AVERASE	b MASS	TRATION	d NO. OF	(a) HARE	(i) availab		n (a) mass	(if available)	(s) wese	a. MAXIMUM DAILY VALUE	D. SE. LEVEC PHE- AS- SENY SENT	ATEST D	(if available)
tional)	S. INTAKE (optional)	<b>ن</b> . ت	1 1	4. UNITS			CLONG TERM A	7	EFFLUENT	b. MAXIMUM			2. MARK 'X'	2. M.	AND CAS
R0173	VB No. 158-1	Form Approved OMB No. 158-R0173	Form		·	NUMBER	EPA 1.D. NUMBER (copy from Item 1 of Form 1) OUTFALL N PAD065614430	l of Forn	430	1065614	EPA I.D. P/		4	PAGE	VTINUED FROM PAGE V-4
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PAGE V-7	CONTINUE ON PAGE V-7					PAGE V-6	đ	د			80)	, Form 3510-2C (6-80)
		gm	mg/1					•	<.023	<0.010	×	B. 1,3-Dichloro- nzene (641-73-1)
		gm	mg/1	,					<,023	<0.0,10	×	)B. 1,2 Dithloro- inzene (95-50-1)
-		gm	mg/l			,			<,057	<0.025	×	nthracene (3-70-3)
		gm	mg/1						<.023	0.010	×	38. Chrysone 218-01-9)
.		gm	mg/1'						<,023	<0.010	×	78. 4-Chloro- nenyl Phenyl ther (7005-72-3)
		gm	mg/1						<.023	<0.0,10	×	68. 2-Chloro- sphthalene 11-58-7)
		gm	mg/1				•		<.023	<0.0,10	×	58.   Benzyl hther (85-68-7)
		gm	mg/1						<,023	<0.010	×	henyl Phenyl ther (101-55-3)
		gm	mg/1		•	!			<.023	<0.0,10	×	3B. Bis (2-Ethyl- exyl) Phthalate [17-B1-7]
		gm	mg/1		,				<.023	<0.0,10	×	28. Bis (2-Chloro- iopropyl) Ether 39638-32-9)
		gm	mg/1				,		<.023	<0.0,10	×	Th. Bis (2-Chloro- thyl) Ether 111-44-4)
		gm	mg/1		Sign of the state				<.023	<0.010	×	OB. Bis (2-Chloro- lhoxy) Methane 111-91-1)
		gm	mg/1		·			·	<,023	<0.010	×	)B. Benzo (k) :luoranthene 207-08-9)
		gm	mg/1	-		·		ì.	<.057	<0.025	×	38. Benzo (ghl) Perylene 191-24-2)
		gm	mg/1	•			,		<.023	<0:010	X	78. Benzo- fluoranthene (205 99-2)
		· gm	mg/1						<.023	<0.010	×	6B. Benzo (a) Pyre ~ (50-32-8)
		gm	mg/1					·	<.023	<0.010	×	58. Benzo (a) Anthracene (56-55-3)
		gm	mg/1						<.023	<0.010	×	4B. Benzidine (92-87-5)
	a R	gm	mg/1		·				<.023	<0.010	×	3B. Anthracene (120-12-7)
	200	.gm	mg/1			;			<.023	<0.010	×	28. Acenaphtylens (208-96-8)
1	190	gm	mg/1						<.023	<0.010	×	18. Acenaphthene (83-32-9)
	- 1					CONCENTA				COMPOUNDS	BA	GC/MS FRACTION -
D. NO.OF	AVERAGE VALUE	b MASS	TRATION	d NO.OF	(a) MARK	(1) avo	(1) mass	(i) (i) (i) was	(a) HABB	(1) (2) HASS		
al)			4. UNITS				EFFLUENT	3, E			х. ж.	1. POLLUTANT
												¥

30B. 1,2-Diphenyi-hydrazine (as Azo-benzene) (122-66-7) 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) 34B. Hexa-chic 'utad (87 ) 42B. N-Nitrosodi-N-Propylamine (621-64-7) sodimethylamine (62-75-9) 338. Hexachiorobenzene (118-71-1) 298. Di-N-Octyl Phthalate (117-84-0) 23B. 3,3'-Dichloro-benzidine (91-94-1) AND CAS 25B. Dimethyl Phthalate (131-11-3) 248. Diethyl Phthalate (84-66-2) 288. 2,6-Dinitro-toluene (606-20-2) 36B. Hexachloro-ethane (67-72-1) (77-47-4) 31B. Fluoranthene (206-44-0) 408. Nitrobenzene (98-95-3) 398. Naphthelene (91-20-3) 38B. isophorone (78-59-1) 35B. Hexachloro-328. Fluorene (86-73-7) 278. 2,4 Dinitro-taluene (121-14-2) 268. PI-N-Butyl 228. 1,4-Dichloro-benzene (106-46-7 CONTINUED FROM PAGE V-6 C/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) (if available) utadiene ATT ST D. BE - C. BE. × × × × × × × × 2 × × × × × × × × × 2. MARK 'X' <0.010 <0.025 <0.010 <0.010 <0.010 <0.010, <0.010 <0.010 <0.010 CONCLUTRATION B. MAXIMUM DAILY VALUE <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 K. 057 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 <.023 12 MASS .023 PAD065614430 OUTFALL NUMBER 001 b. MAXIMHM 39 DAY VALUE CLONG TERM AVEG. VALUE CONCENTRATION 3. EFFLUENT (2) MASS CONCENTMATION (2) MASS NO.OF TRATION mg/1 mg/1 mg/1 mg/1 mg/1mg/1 mg/1mg/1 mg/1 mg/1 mg/1mg/1mg/1 mg/1mg/1mg/1mg/1mg/1 $m\dot{g}/1$ mg/1 mg/14. UNITS b. MASS em B gm gm 8m gm gm mg gm  $g_{m}$ 9 8m gm gm m<sub>3</sub> 曾 열 얼 8 gm S S SP PP Form Approved OMB No. 158-R0173 1) CONCENT CHANGE 5. INTAKE (optional) AR200 h NO. OF

UM Press

mg mg		1. UNITS
	d NO. OF	филь в мазя май в мазя май в

CONTINUED FROM PAGE V-8

PAD065614430 '001

CONTINUED FROM PAGE V-8	PAGE V-8		PA	PAD065614430	30		1001	•		Fom	Form Approved OMB No. 158-R0173	18 No. 158-A	0173
1. POLLUTANT	2. MARK 'X'			3. 1	3. EFFLUENT		r		4. UNITS		5. INT 8	5. INTAKE (optional)	:L)
NUMBER	ATEST D. BE. C. BE.	. MAXIMUM DAILY VALUE	ILY VALUE	b. MAXIMHM 30 DAY VALUE	·—-	C.LONG TERM	C.LONG TERM AVEG. VALUE	_	CONCEN-		AVERAGE	EnM b	10.0F
(if available)	COM. BENT BE	NI CONCENTRATION	(2) MASS	CONCENTRATION	(z) MA88	CONCENTRATION [1]	(z) MASS	YSES.	TRATION	E M A S	7)		YSES
GC/MS FRACTION - PESTICIDES (continued)	- PESTICIDES	(continued)									<b>1</b>	4	
17P. Heptachlor Epoxide											0 (		
(1024-57-3)	À										2	<u></u>	
18P. PCB-1242 (53469-21-9)	 ×<						•				1R	7 8%	
19P. PCB 1254 (11097-69-1)	×	,											
20P. PCB-1221 (11104-28-2)	X												
21P. J-1232 (11141-16-5)	X				·			·					
22P. PCB-1248 (12672-29-6)	X					-							
23P. PCB-1260 (11096-82-5)	×			·									
24P. PCB-1016 (12674-11-2)	X				,								
25P. Toxaphene (8001-35-2)	×						•						
									1			_	

EPA Form 3510-2C (6-80)

PAGE V-9

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Mr. Jack Baker Spectrum Control 600 Erie Street Saegertown, PA 16433

Date Sample(s) Received: 8/5/81/32

Re: 001 8/4/81 Composite

P.O. #25119

#### ANALYTICAL REPORT FORM

ANALT II CAL NE	PUNI FUNI
Parameter	Sample
B.O.D. <sub>5</sub> mg/L	<1
C.O.D. mg/L	36
T.O.C. mg/L	13.2
Total Suspended Solids mg/L	12.2
Ammonia Nitrogen mg/L	2.8
Chlorine	Tested on Site
Fluoride mg/L	8.3
Nitrite Nitrogen mg/L	<0.02
Nitrate Nitrogen mg/L	9.8
Total Organic Nitrogen mg/L	2.2
Phosphorus mg/L	<0.01
Sulfate mg/L	500
Sulfide mg/L	0.4
Sulfite mg/L	0.5
Surfactants mg/L	<0.2
Total Aluminum mg/L	<0.20
Total Barium mg/L	0.14
Total Boron mg/L	5.48
Total Cobalt mg/L	0.04
Total Iron mg/L	o.10 AR200905

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

Here W. Laglier ADMINISTRATIVE ACTUAL OF ACT

PA. Department of Health Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

# P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Spectrum Control

Page 2

Date Sample(s) Received: 8/5/81/32

Re: 001 8/4/81 Composite

#### ANALYTICAL REPORT FORM

Parameter	<u>Sample</u>
Total Magnesium mg/L	21.8
Total Molybdenum mg/L	<0.20
Total Manganese mg/L	<0.05
Total Tin mg/L	< 1.0
Total Titanium mg/L	< 1.0
Total Antimony mg/L	< 0.20
Total Arsenic mg/L	0.022
Total Beryllium mg/L	< 0.01
Total Cadmium mg/L	<0.01
Total Chromium mg/L	< 0.05
Total Copper mg/L	<0.05
Total Lead mg/L	<0.1
Total Mercury mg/L	0.0001
Total Nickel mg/L	6.4
Total Selenium mg/L	0.05
Total Silver mg/L	0.13
Total Thallium mg/L	<0.50
Total Zinc mg/L	0.02

AR200906

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129 Robert V. Taglier

PA. Department of Health Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Mr. Jack Baker Spectrum Control 600 Erie Street Saegertown, PA 16433 Date Sample(s) Received: 8/5/81/33-36

Re: 001 Taken 8/4/81

#### ANALYTICAL REPORT FORM

Units in mg/L

Sample	Cyanide	Oil & Grease	Pheno1
8:00 AM	0.34	<0.1	<0.01
10:00 AM	0.27	<0.1	. <0.01
12:15 PM	0.23	<0.1	<0.01
2:15 PM	0.19	1.5	<0.01

Helen V. Taglieri ADMINISTRATIVE ASSISTANT

AR200907

PA, Department of Health Clinical Laboratory Permit No. 561 EPA Facility No. 38-073

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

# J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Spectrum Control

Date Sample(s) Received: 8/5/81/32

Re: 001 Composite

ANALYTICAL REPO	ORT FORM Units in mg/LSample
Acrolein	<0.100
Acrylonitrile	<0.100
Benzene	<0.010
Bis (Chloromethyl) Ether	<0.010
Bromoform	<0.010
Carbon Tetrachloride	<0.010
Chlorobenzene	<0.010
Chlorodibromomethane	<0.010
hloroethane	<0.010
2-Chloroethylvinyl Ether	<0.010
hloroform	<0.010
ichlorobromomethane	<0.010
eichlorodifluoromethane	<0.010
,1-Dichloroethane	<0.010
,2-Dichloroethane	<0.010
,1-Dichlorwethylene	<0.010
,2-Dichloropropane	<0.010
is 1,3-Dichloropropene	<0.010
rans 1,3-Dichloropropene	<0.010
Ethylbenzene	<0.010 AR200908

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

### FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Spectrum Control

Date Sample(s) Received: 8/5/81/32

Re: 001 Composite

ANALYTICAL REPORT FORM

Units in mg/L

Volatile Compounds	Sample
Methyl Bromide	<0.010
Methyl Chloride	<0.010
Methylene Chloride	<0.010
1,1,2,2-Tetrachloroethane	<0.010
Tetrachloroethylene	<0.010
Toluene	<0.010
1,2-Trans-Dichloroethylene	<0.010
1,1,1-Trichloroethane	<0.010
1,1,2-Trichloroethane	<0.010
Trichloroethylene	<0.010
Trichlorofluoromethane	<0.010
Vinyl Chloride	<0.010

AR200909

# J. Richard Wohler; Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Spectrum Control

Date Sample(s) Received: 8/5/81/32

Re: 001 Composite

ANALYTICAL REPORT FORM Units in mg/L

	Acid Compounds	<u>Sample</u>
	2-Chlorophenol	<0.025
	2,4-Dichlorophenol	<0.025
	2-4-Dimethylphenol	<0.025
	4,6-Dinitro-O-Cresol	<0.250
	2,4-Dinitrophenol	<0.250
	2-Nitrophenol	<0.025
	4-Nitrophenol	0.026
	P-Chloro-M-Cresol	<0.025
	Pentachlorophenol.	<0.025
	Phenol	<0.025
,	2,4,6-Trichlorophenol	<0.025

AR200910

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

Mr. Jack Baker Spectrum Control Inc. To 600 Erie Street

Saegertown, PA 16433

Date Sample(s) Received: 8/5/81/32

001 Composite

ANALYTICAL REPORT FORM

Units in mg/L

	·
Base/Neutral Compounds	Sample
Acenaphthene	<0.010
Acenaphtylene	<0.010
Anthracene	<0.010
Benzidine	<0.010
Benzo (a) Anthracene	<0.010
Benzo (a) Pyrene	<0.010
3,4-Benzofluoranthene	<0.010
Benzo (ghi) Perylene	<0.025
Benzo (k) Fluoranthene	<0.010
Bis (2-Chloroethoxy) Methane	<0.010
Bis (2-Chloroethyl) Ether	<0.010
Bis (2-Chloroisopropyl) Ether	<0.010
Bis (2-Ethylhexyl) Phthalate	<0.010
4-Bromophenyl Phenyl Ether	<0.010
Butyl Benzyl Phthalate	<0.010
2-Chloronaphthalene	<0.010
4-Chlorophenyl Phenyl Ether	<0.010
Chrysene	<0.010
Dibenzo (a,h) Anthracene	<0.025 AR200911

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health . · Clinical Laboratory Permit No. 561

J. Richard Wohler, Ph.D. Laboratory Director

## FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To:

Spectrum Control

Date Sample(s) Received: 8/5/81/32

Re: 001 Composite

ANALYTICAL REPORT FORM

Units in mg/L

		•
Base/Neutral Compounds	Sample	-
1,2-Dichlorobenzene	<0.010	
1,3-Dichlorobenzene	<0.010	
1,4-Dichlorobenzene	<0.010	
3,3'-Dichlorobenzidine	<0.010	
Diethyl Phthalate	<0.010	
Dimethyl Phthalate	<0.010	- <del></del>
Di-N-Butyl Phthalate	<0.010	
2,4-Dinitrotoluene	<0.010	
2,6-Dinitrotoluene	<0.010	
Di-N-Octyl Phthalate	<0.010	
1,2-Diphenylhydrazine	<0.010	
(as Azohenzene)	<0.010	
Fluoranthene	<0.010	
Fluorene	<0.010	
Hexachlorobenzene	<0.010	
Hexachlorobutadiene	<0.010	
Hexachlorocyclopentadiene	<0.010	
Hexachloroethane	<0.010	
Indeno (1,2,3-cd) Pyrene	<0.010 AR	200912
	•	-

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129 PA. Department of Health Clinical Laboratory Permit No. 561

# J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To.

Spectrum Control

Date Sample(s) Received: 8/5/81/32

Re: .001 Composite

ANALYTICAL REPORT FORM

Units in mg/L

Base/Neutral Compounds	· . ·		Sample
Isophorone			<ó.010
Naphthalene	•	•	<0.010
Nitrobenzene		· · · =	<0.010
N-Nitrosodimethylamine			<0.025
N-Nitrosodi-N-Propylamine	• • • • • • • • • • • • • • • • • • • •		<0.010
N-Nitrosodiphenylamine			<0.010
Phenanthrene		· · · · · · · · · · · · · · · · · · ·	<0.010
Pyrene			<0.010
1,2,4-Trichlorobenzene			<0.010

AR200913

ISE PRINT OR TYPE IN THE UNSHADED AREAS ONLY, You may report some or all of illormation on separate sheets (use the same format) instead of completing these pages. INSTRUCTIONS

EPA I.D. NUMBER (copy from Item I of Form 1) PAD065614430

· Mariner in

etterior esterioride deliverate la comocione

Form Approved OMB No. 158-R0173

700 SUTFALL NO. ANALYSES 4. INTAKE (optional) \*\* (x) NT A. You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. AVERAGE VALUE (1) CONCENTRATION VALUE VALUE b MASS gm gm STANDARD, UNITS. ES gm gm Gal (specify if blank) ပွ ပွ A.CONCEN-TRATION mg/1mg/1mg/1mg/1mg/1d. NO. OF B. MAXIMUM BAILY VALUE | B. MAXIM/ M 30 BAY VALUE | C. LONG TERM AVEG. VALUE : (1) MASS CONCENTRATION VALUE VALUE VALUE NTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) (2) MABS 2. EFFLUENT MAXIMUM (1) CONCENTRATION MINIMUM VALUE VALUE (z) MABE <7.3 160,7 2,9 <51.0 <0.7 Not available MAXIMUM 7.8 1930 40 (1) CONCENTRATION MINIMUM <1.0 <7.0 25.0 0,4 <0,1 7.7 VALUE VALUE VALUE OLLUTANT otal Suspended Is (TSS) (N sa) winomin to Demand ten Demand stal Organic Imperatura Imperature hernicei š

ITB - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

OLLUT.	2. MARK 'X'	.×.		-									
IT AND					err Lueni		·. ·	-	4. UNITS	ITS	TNI S	5. INTAKE Contional	
AS NO.	LIR VALLE	لبب	8. MAXIMUM DAILY VALUE	D. MAXIMUM 30 DAY V.	PAN VALUE	CLONG TERM	AYRG. VALUE	T C CN			B. LONG		
wailable)		KENT (1)	10)				(alone)	ANAL	B. CONCEN	b MAGG	AVERAGE VALUE		NO.0F
		CONCENTRATION		CONCENTRATION	(z) MA88	CONCENTRATION	IASS CONCENTRATION (1) MASS YSES	YSES	TRATION		(1) CONCENTRATION	[2] MASE	YSES
69 67-9)	<u>×</u>		.:		•								
· forine.													1
I Residual	×	· ×											
		A											
101	×.'	· ·											
6.4		2											
use		0 (							#/100ml				
.torlde	•												
114-48-8)	×**	3.1						•					
treto-	7												
(N rd) el.	×	×											
100													
Form 3510-2C (6-80)	7C (6-80)	,				PAGE V-1							

CONTINUE ON REVERSE

	D	S. MAXIMUM	THE VALUE	16. MAXIMIIM 39 DAY VALUE	9 DAY VALUE	C.LONG TERM	AVRG. VALUE	0 07.			SHOLS	LONG TERM	
CAS NO.	PRE ANT	ה שיאושתש חיורי יארחב	Islands	(1)	luble)	(i) (I/ avallable)	lable	ANAL.	TRATION	b, MASS	A Peliable Value	ר לאנ"מר	AND.OF
1	>	CONCENTRATION		CONCENTRATION		CONCENTRATION	e v m (r)	1963			CONCENTRATION	[1] MASS	YSEK
	<					•							
Off and	×	2,3	16.8						mg/1	шS			·
Phosphorus 1 P., Total 723-14 0)	×												
Hadioactivity						, .			ŀ				
) Alpha,	×												
Heta, tal	×									,			
Redlum,	×												
· Radium 6, Total	×			·		.*					·		
Suffete SO <sub>4</sub> ) (BOB-79-8)	×												
Sy	×												
Suffite SO <sub>3</sub> ) (265-45-3)	×				,								
Surfactants	×				,						·	,	
7)uminum, (4) 29:90-5)	×	!						;					
40.39.3)	. ×											,	
40-42-8)	. ×	.,						<u>, -</u> .		•	-		
obalt, a1 40-48-4)	×	· !			٠.								
on, Total 19-89 6)	Х	· :											
**gp#tum, of 19-95-41	—— ——								-				
alybdenum,	RZ										-		
langanese, 1 19-96-5)	UM	· 			4								
in, Total 10-31-5)	y *;				,								;
	) ×	-			,			1				(	
orm 3510.	2C 16.R01			**************************************		77 55 77 97			T				

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER

PAD065614430 002

CONTINUED FROM PAGE 3 OF FORM 2-C

Form Approved OMP No. 158-R0173

6

-PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, non—process wastewater outfalls, and non—required GC/MS fractions), mark "X" in column 2-b for each pollutant you knower have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

		1		d edding.	·.					•				
1. POLLUTANT	2. MARK 'X'	×.			3, E	3. EFFLUENT				4. UNITS	ITS	5 INT	5 INTAKE (antiqual)	
NUMBER	NEST A	Par- Car	A. MAXIMUM DAILY VALUE		b. MAXIMHM 30 DAY VALUE	_		Myre. Value		a. CONCEN-	husec	a. LONG		b NO.01
	TOT TOT	2 2 2	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MAES .	CONCENTRATION	12) MASS	YSES	NOITABL		TRATION [2] MASI	(2) MASS	YSES
1M. Antimony,		<b>*</b>				,								
2M., nic, Total (7440-38-2)		×						•						
3M. Beryllhum, Total, 7440-41-7)		×									·			
4M. Cadmium, Total (7440-43-9)		×		,										
5M. Chromium, Total (7440-47-3)		×								·				
6M. Copper, Total (7550 50-8)		×	٠	·										
7M. Lead, Total (7439-97-6)		×			;									
8M. Mercury, Total (7439-97-6)		×				,			•	·				
9M. Nickel, Total (7440-02-0)		×				•								
10M nium, Fotal 82-49-2)		×	_										•	
11M. Silver, Total [7440-22-4]		×												
12M. Thailium, Total (7440-28-0)		×			•	0	-			-				
13M. Zinc, Total (7440-66-6)		X												
14M. Cyanide, Total (57-12-5)		×					·							
15M. Phenois, Fotal		×						·						
NIXÒIC														
hiorodibenzo-P- Dioxin (1764-01-6)		×	DESCRIBE RESULTS			-								
2540.20	5													

PA Form 3510-2C (6

I. POLLUTANT
AND CAS
NUMBER
(If available) 8V. Chlorodi-bromomethane [124-48-1] 6V pon Tetruntoride (56-23-5) 4V. Bis (Chloro-methyl) Ether (542-88-1) 3V. Benzene (71-43-2) 1V. Acrolein (107-02-8) 10V. 2-Chloro-hthylvinyl Ether 110-75-8) 2V. Acrylonitrije (107-13-1) 2V. Dichloro-romomethane 75-27-4) 3V. Dichloro-illuoromethane '5-71-8) 6V. Bromotorm (75-25-2) GC/MS FRACTION - VOLATILE COMPOUNDS 11V. Chloroform 67-66-3) )V. Chloraethans (75 00-3) 7V. Chlorobenzene (108 90-7) Sec. V. 1,2-Dichloro-opylene 42 75 6) 'V. 1,2-Dichloro-opane (78-87-5) iV. 1,1-Dichloro-hylene (75-35-4) 5V. 1,2-Dichloro-hane (107-06-2) V. Ethylbanzena )0.41-4) V. Methyl pmide (74-83 9) J. Methyl loride (74-87-3) Form 3510-2C (6-80) Olchloro-j-34-3) ATEST DEC. C.BE. B. MAXIMUM DAILY VALUE FRONT × × × × × × × × ×  $\approx$ × × × × × × × × × ×  $\bowtie$ B. MAXIMIJM 39 DAY VALUE CONCENTRATION щ (2) 2015 CONCENTRATION C.LONG TEPM AND S. VALUE S (2) WASS ANAL-YSES 1. CONCENTRATION A. UNITS b. MASS INVE [1] SHAME (1) SHAME ( 5. (TAKE (optional) AR NO. OF

tia. 2,4.6-Tri-chlorophenoi 27V. 1,1,1-Tri-chloroethane (71-55-6) 28V. 1,1,2-Tri-chloroethane (79-00-6) 26V, 1,2-Trans-D' orgethylana ( 30-5) 23V. 1,1,2,2-Tetra-chloroethane (79-34-6) 10A. Phenol (108-95-2) 30V. Trichloro-fluoromethene (75-69-4) 25V. Toluene (108-88-3) āά GC/MS FRACTION - ACID COMPOUNDS 5A. 2,4-Dinitro-phenol (51-28-5) 4A. 4,6-Dinitro-O-Cresol (534-52-1) 2A. 2.4-Dichloro-phenol (120-83-2) 1A. 2-Chlorophenol (95-57-8) 31V. Vlny! Chloride (75-01-4) 29V. Trichloro-ethylene (79-01-6) 9A. Pentachioro-phenol (87-86-5) 8A. P-Chloro-M-Cresol (59-50-7) 6A. 2-Nitrophenol (88-75-5) 24V. Tetrachloro-ethylene (127-18-4) 7A. 4-Nitrophenol (100-02-7) 22V. Methylene Chloride (75-09-2) GC/MS FRACTION - VOLATILE COMPOUNDS (continued) (if available) 1-Dimethyl-(105-67-9) ATEST D. BE. C. BE. 2. MARK 'X' × CONCENTRATION & MAXIMUM DAILY VALUE (z) WAS9 PAD065614430 Lem 1 of Form 1) OUTFALL NUMBER 002 b. MAXIMIM 39 DAY VALUE CLONG TERM AYING. VALUE. CONCENTRATION (z) MABB CONCENTRATION 88VH (Z) ANAL. TRATION A. UNITS b. MASS ŗ 5 S. IN TAKE (optional)

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TRATION (1) LANGE YOLLY

1. POLLUTAN MARK O 118. Bis (2-Chloro-ethyl) Ether (111-44-4) 148. 4-Bromo-phenyl Phenyl Ether (101-55-3) 138. Bis (2-Ethylhexyl) Phthelate (117-81-7) 128. Bis (2-Chloro-Liopropyl) Ether (39638-32-9) 198. Dibenzo (a,h) Anthrecene (53-70-3) 178. 4-Chloro-phenyl Phenyl Ether (7005-72-3) naphthalene (91-58-7) 98. Benza (k) Fluorenthene (207-08-9) 8B. Benzo (ghi) Perylene (191-24-2) 7. J.4-Benzo-fluoranthena (205-99-2) 68. Benzo (a) Anthracene (56-55-3) GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS 108. Bis (2-Chloro-elhoxy) Methans (111-91-1) 68. Benzo (a)
P ne (50-32-8) 3B. Anthracene (120-12-7) 218. 1,3-Dichloro-benzene (541-73-1) 1! utyl Benzyl Phtiislate (85-68-7) 48. Benzidine (92-87-5) 28. Acenaphtylene (208-96-8) 18. Acenaphthene (83 32-9) PA Form 3510-2C (6-80) 208. 1,2-Dichloro-benzene (95-50-1) 188. Chrysens (218-01-9) (if available) WARK 'X' THE CHELL × × × × × × × × × × ×  $\bowtie$ × × × × × × × × × A. MAXIMUM DAILY VALUE SEVE (1) B. MAXIMIN 39 DAY VALUE CONCENTRATION (2) MASS PAGE V-6 C.LONG TERM AVRG. VALUE d NO. OF Ci TRATION 4. UNITS b. MASS AVERAGE VALUE 5. INTAKE (optional) AR2009 CONTINUE ON PAGE V-7 (1) HAEE AHAL AND O

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37B. Indeno (1,2,3-cd) Pyrene (193-39-5) 308. 1,2-Diphenyi-hydrazine (as Azo-benzene) (122-66-7) 348. Haxa-chlorobutadiene (87-68-3)
358 \*xachloro-cyc stadiene (77-- 4) 42B. N-Nitrosodi-N-Propylamine (621-64-7) 418, N-Nitro-sodimethylamine (62:75-9) 338. Hexa-chlorobenzene (118-71-1) 298. DI-N-Octyl Phthalate (117-84-0) 25B. Dimethyl Phthalate (131-11-3) 26B. DI-N-Butyl Phthalate (84-74-2) EPA Form 3510-2C 248. Diethyj Phthalate (84-66-2) 238. 3,3'-Dichloro-benzidine (91-94-1) NUMBER 328. Fluorene (86-73-7) 36B. Hexachloro-ethane (67-72-1) 318. Fluoranthene 1206-44-0) 288. 2,6-Dinitro-toluene (606-20-2) 388: (sophorone (78-59-1) 278: Dinitro-toluen (121-14-2) 3C/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) 408, Nitrobenzene (98-95-3) 39B. Naphthelene (91-20-3) 228. 1,4-Dichloro-banzene (106-46-7 CONTINUED FROM PAGE V-6 (if available) ATLET D. BL. C. BE. B. MAXIMUM DAILY VALUE 2. MARK 'X' × PAD065614430 1 of Form 1) OUTFALL NUMBER 002 5. MAXIMIM 39 DAY VALUE CONCENTRATION (1) (z) m A 5 8 CLONG TERM AYEG. VALUE (I) 88 VM (2) d NO. OF TRATION 4. UNITS b MASS Form Approved OMB No. 158-R0173 THOUSEN ( 1) CONCERN (1) CONCERN (1) THE WATER 5. INTAKE (optional) DE ON REVERSE b NO. OF

9P 44.DDD (7 8) 1. POLLUTANT AND CAS NUMBER 438. N-Nitro-sodiphenylamine (86-30-6) 13P. Endosultan Sulfate (1031-07-8) 10P. Dieldrin (60-57-1) 7P. 4.4'-DDT 150-29-3) 46B. 1,2,4 - Tri-chlorobenzene (120-82-1) 5P. δ-BHC (319-86-8) 4Р. **7-**ВНС (58-89-9) 3P. β BHC (319-85-7) 458, Pyrene (129-00-0) 15P. Endrin Aldehyde (7421-93-4) 14P. Endrin (72-20-8) 2P. Q-BHC (319-84-6) EPA Form 3510-2C (6-80) 8P. 4,4'-DDE (72-55-9) 6P. Chlordane (57-74-9) 11P. G-Endosulfan (115-29-7) 448, Phenanthrene (85-01-8) NUMBER

ATKET L. B. WELLEVE B. MAXIMUM DAILY VAL

(if available)

COMMITTATION

GC/MS FRACTION

BASE/NEUTRAL COMPOUNDS (continued) 16P. Heptechlor (76-44-8) 12P. β-Endosulfan (115-29-7) GC/MS FRACTION - PESTICIDES 'drin J0-2) 2. MARK 'X' FRONT × × × × × × × × × × × × × × × ×  $\bowtie$ × × × B. MAXIMUM DAILY VALUE \$2 WW (2) CONCENTRATION 3. EFFLUENT
b. MAXIMHM 30 DAY VALUE c.LONG TERM AVEG. VALUE : (2) MASS PAGE V-8 (1) (z) MASS d NO. OF A. CONCEN-4. UNITS b. MASS 5. INTARL.

1. LONG TERM
AVERNS L. VALVE

10) cong 20

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10) unit 5. INTAKE (optional) CONTINUE ON PAGE V 9 ANAL VSFS

EPA Form 3510-2C (6-80) I. POLLUTANT AND CAS NUMBER CONTINUED FROM PAGE V-8 (ZE) 23P. PCB-1260 (11096-82-5) 20P. PCB-1221 (11104-28-2) 18P. PCB-1242 (53469-21-9) 25P, Toxaphene (8001-35-2) 22P. PCB-1248 (12672-29-6) 19P. PCB-1254 (11097-69-1) 17P Heptachlor GC/MS FRACTION - PESTICIDES (continued) 24P. PCB-1016 (12674-11-2) (1024-57-3) (if available) ·9-1232 ,6-5) ATEST D. B.C. C. DR. B. MAXIMUM DAILY VALUE

OUT. SENT BENT CONCENTRATION (1) HASS Z. MARK 'X' × × × × × × × × CONCLUTRATION EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER PAD065614430 3. EFFLUENT
b. MAXIMHM 30 DAY VALUE CONCENTRATION 2) MASS PAGE V-9 C.LONG TERM AVRG. VALUE CONCENTRATION 002 (2) MASS d NO. OF TRATION 4. UNITS b MASS Form Approved OMB No. 158-R0173 5. INTARE (aptional)
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J. Richard Wohler, Ph.D. Laboratory Director

# P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

Mr. Jack Baker
Spectrum Control
To: 600 Erie Street
Saegertown, PA 16433

Date Sample(s) Received: 8/5/81/29

Re: 002 Composite

#### ANALYTICAL REPORT FORM

Parameter	Composite Sample (8/4)
B.O.D. <sub>5</sub> mg/L	<1°
C.O.D. mg/L	<7
T.O.C. mg/L	22.0
Total Suspended Solids mg/L	<0.1
Ammonia Nitrogen mg/L	0.4

Parameter	8/4	8/5	8/5	8/5
	8:00 PM	2:00 AM	8:30 PM	2:30 PM
Oil & Grease mg/L	<0.1	<0.1	3.4	1.5

ADMINISTRATIVE ASSISTANT

8/25/81 .

/dt

AR200923

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129 PA. Department of Health Clinical Laboratory Permit No. 561 EPA Facility No. 38-073

J. Richard Wohler, Ph.D. Laboratory Director

# FREE-COL LABORATORIES P.O. Box 557, Cotton Road Meadville, PA 16335

(814) 724-6242

Karen C. Eglinton Laboratory Manager

To: Mr. Jack Baker

Spectrum Control Inc.

600 Erie Street

Saegertown, PA 16433

Date Sample(s) Received:

8/5/81

002 RE:

ANALYTICAL REPORT FORM

Sample		<u>Fecal</u>	Coliform	#/100	mL
8:00 AM	8/4		0		
2:00 PM	8/4		0		
8:00 PM	8/4		0		
2:00 AM	8/5		0		

Robert V. Taglieri

ADMINISTRATIVE ASSISTANT

8/31/81

/dt

AR200924

A.I.H.A. Accreditation No. 98 HEW / CLIA Lic. No. 37-1129

PA. Department of Health Clinical Laboratory Permit No. 561 EPA Facility No. 38-073

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

# WATER QUALITY MANAGEMENT PERMIT - PART I

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

•	PERMIT	NO. PA 0100307
		provisions of the Clean Water Act, 33 U.S.C. 1251 et. seq. s Clean Streams Law, as amended, 35 P.S. Section 691.1 et.
	Spect	trum Control, Inc.
•	, , , i	
is authori	zed to discharge from	m a facility located at
	Saegertow	wn Borough - Crawford County
to receivi	ing waters named	
	Storm sewe	er tributary to French Creek
	• • • • • • • • • • • • • • • • • • • •	
	ance with eithent li Parts A, B, and C here	imitations, monitoring requirements and other conditions set
This	s permit shall become	e effective on
This	s permit and the auth	horization to discharge shall expire at midnight, 6/30/81.
The author	ority granted by this	permit is subject to the following further qualifications:
ame		between the application, its supporting documents and/or standard or special conditions, the standard or special
terr		the rules and regulations of the Department or with the this permit shall void the authority to discharge given to the t.
	MIT ISSUED	BY
· DATE		TITLE
	. :	<del></del>
		AR20092
1	1	

41 42 45 LONG 80 08 46 001 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS, OUTFALL WHICH RECEIVES WASTE FROM:

and lasting through During the period beginning Effective Date the permittee is authorized to discharge,

6/30/81

Such discharges shall be limited, and monitored by the permittee, as specified below:

Monitoring	monto till kequirements	Measurement Sample	1ype	Continuous Recorded	1/week 8 hr. comp	,	11	11	11	11	11	11	AVR. Of 3 graha	bove ambient or a maximum	hour,
Discharge Limitations *	Other Units (Specify)	Daily Daily Instantaneous  Avg. Max. Max.	חז אכיו		1.0 mg/1	L'gm U'T	, U5 mg/l	2 mg/l	1 mg/1	.25 mg/l	12 mg/1	60 mg/1	30 mg/l	of 87° whichever is less or rates the transfer an instream rise of 5° above ambient or a maximum	taise tile temp more than 20 in one hour,
eristic	y (Ibs	Avg. Max.	(Qt	. 07 ppd 114 ppd		١.	ı				1	2.1 ppd 4.2 ppd	Limited to an amoun	of 87° whichever is	
Effluent Characteristic		¢	Flow-m <sup>3</sup> /Day (MGD)	Copper	Nickel	Silver	Tin	Cyanide Total	Cyanide Free	Iron Total	Suspended Solids 4.3 ppd	Oil & Grease	Temp.		

9.0 standard units, not greater than 6.0 The pH shall not be less than be monitored Daily, Grab

standard units and shall

s/8 hrs.

There shall be no discharge of floating solids or visible foam in other than trace amounts,

locarion(s): Outfall of treatment facility prior to discharge to or mixing with storm sever or cooling water. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following

\*Unless otherwise indicated, these are gross discharge limitations.



005

WHICH RECEIVES WASTE FROM:

During the period beginning Effective Date and lasting through the permittee is authorized to discharge.

Such discharges shall be limited, and monitored by the permittee, as specified below:

Effluent Characteristic	Discharge Limitations *	Monitoring Requirements	irements
kg/day (lbs/day) Daily Daily Avg. Max.	Other Units (Specify)  Daily Daily Instantaneous  Avg. Max. Max.	Measurement Frequency	Sample
Flow-m <sup>3</sup> /Day (MGD)	.0072	Weekly	Estimate
Temp. Limited to an amoun maximum of 87° which	amount which would cause an instream rise of $5^{\rm O}$ above ambient or a whichever is less or raise the temp more than $2^{\rm O}$ in one hour.	5° above amblent in 2° in one hour.	or a

standard units and shall 0,6 standard units, not greater than 6.0 1/week - grab The pH shall not be less than be monitored

Thereshall be no discharge of floating solids or visible foam in other than trace amounts.

location(s): Outfall 002 - Cooling water discharge prior to mixing with or discharge to storm sewer Samples taken in compliance with the monitoring requirements specified above shall be taken at the following on threatment plant effluent.

\*Unless otherwise indicated, these are gross discharge limitations.

#### PART A

#### MONITORING AND REPORTING

#### a. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

#### b. Reporting

Monitoring results obtained during the previous months shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. T-40), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on . Duplicate signed copies of these and all other reports required herein, shall be submitted to the Department and the EPA Regional Administrator at the following addresses:

Dept. of Environmental Resources Permits Administration Section

Bureau of Water Quality Mgmt.

1012 Water Street

Meadville, Pennsylvania 16335

Enforcement Division
U.S. Environmental Protection

Agency Region III

6th and Walnut Streets Philadelphia, PA 19106

#### c. Definitions

- (1) The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- (2) The "daily maximum" discharge means the total discharge by weight during any calendar day.
- (3) The "daily average" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average of all the samples collected during that calendar day.
- (4) The "daily maximum" concentration means the daily determination of concentration for any calendar day. AR200928
- (5) The "instantaneous maximum" concentration means the concentration not to be exceeded at any time in any grab sample.

- (6) Composite Sample A combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- (7) Grab Sample An individual sample collected in less than 15 minutes.
- (8) "i-s", = immersion stabilization a calibrated device which is immersed in the effluent stream until the reading is stabilized.
- (9) The "daily average" temperature means the arithmetic mean of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of a shorter duration.
- (10) The "daily maximum" temperature means the highest arithmetic mean of the temperatures observed for any two (2) consecutive hours during a 24-hour day, or during the operating day if flows are of shorter duration.
- (11) "Measured Flow" Any method of liquid volume measurement the accuracy of which has been previously demonstrated in engineering practice, or for which a realtionship to absolute volume has been obtained.
- (12) "At outfall XXX" A sampling location in outfall line XXX downstream from the last addition point or as otherwise specified.
- (13) Estimate To be based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.
- (14) Non-contact cooling water means the water that is contained in a leakfree system, i.e. no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels.
- (15) The term "cyanide A" shall mean cyanide amenable to chlorination.

#### d. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act, under which such procedures may be required.

#### e. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information: AR200929

(1) The exact place, date, and time of sampling.

- (2) The dates the analyses were performed.
- (3) The person(s) who performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of all required analyses.

#### f. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA No. T-40). Such increased frequency shall also be indicated.

# g. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if requested by the Department or the EPA Regional Administrator.

#### 3. SCHEDULE OF COMPLIANCE

a. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

N/A

b. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

#### PART B

#### MANAGEMENT REQUIREMENTS

#### a. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Department of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

#### b. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall provide the Department and the EPA Regional Administrator with the following information, in writing, within five (5) days of becoming aware of such condition:

- (1) A description of the discharge and cause of noncompliance; and
- (2) The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

#### c. Facilities Operation

The permittee shall, at all times, maintain in good working order and operate as efficiently as possible, all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

#### d. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

#### e. Bypassing

Any diversion from or bypass of facilities used to maintain compliance with the terms and conditions of this permit is prohibited. Where malfactors 932 breakdowns, or other unforeseen events cause a disruption of these facilities, the permittee shall first make an effort to halt, reduce, or otherwise control production so that a discharge in excess of the effluent limitations does not occur.

In the event that diversion or bypassing occurs to prevent loss of life or severe property damage, or where excessive storm drainage or runoff would damage these facilities, the permittee shall promptly notify the Department and the EPA Regional Administrator, orally and in writing, of each such diversion or bypass, together with a full and complete explanation of the event as noted in Par. 1.b(1) and 1.b(2) above.

#### f. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

# g. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- (1) In accordance with the Schedule of Compliance contained in Part A.3, provide an alternative power source sufficient to operate the wastewater control facilities;
  - or, if such alternative power source is not in existence, and no date for its implementation appears in Part A.3,
- (2) Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

#### RESPONSIBILITIES

### a. Right of Entry

The permittee shall allow the head of the Department, the EPA Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- (1) To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- (2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

#### b. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from Mich he 33 authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Department and to the EPA Regional Administrator.

DAVE HENDERSON

RICHARD SWITH

BOYCE BERRY

PAST CHIEFS

TO COPIES

MEAD BOND, WHITE, REGULAR WOVE FINISH - 24 LB.

AR200934

# c. Availability of Reports

Except for data determined to be confidential under 25 Pa. Code, Section 92.63, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the EPA Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalites as provided for in Section 309 of the Act or applicable State law.

# d. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- (1) Violation of any terms or conditions of this permit;
- (2) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- (3) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- (4) A change in applicable water quality standards or treatment requirements.

#### e. Toxic Pollutants

Notwithstanding Part B.2.d above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, then this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

# f. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal-penalties for noncompliance.

# g. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

#### h. Property Rights

AR200935

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

#### i. Other Laws

Nothing herein contained shall be construed to be an intent on the part of the Department to approve any act made or to be made by the permittee inconsistent with the permittee's lawful powers or with existing laws of the Commonwealth regulating industrial wastes and the practice of professional engineering, nor shall this permit be construed to sanction any act otherwise forbidden by any of the laws of the Commonwealth of Pennsylvania or of the United States.

# j. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# PART C

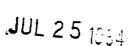
OTHER REQUIREMENTS



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

1012 Water Street

Meadville, Pennsylvania 16335 Telephone: A. C. 814-724-8550



Subject: Spectrum Control, Inc.

Saegertown, Crawford County NPDES Permit #PA0100307

Mr. Jack Baker Vice President, Engineering Spectrum Control, Inc. 600 Erie Street Saegertown, Pennsylvania 16433

Dear Mr. Baker:

Enclosed is your Water Quality Management Part I Permit #PA0100307 authorizing a discharge from your plant in Saegertown, Crawford County, Also enclosed is a copy of a Discharge Monitoring Report (DMR) which should be copied and used to report your effluent parameters according to the schedule contained in your permit.

A Water Quality Management Part II Permit application will not be required at this time.

If you have any questions regarding this matter, do not hesitate to contact me.

Sincerely

Regional Environmental Protection Director

RHZ/skg

Enclosures

AR200938

# CC MONWEALTH OF PENNSYLVANI DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF WATER QUALITY MANAGEMENT

# AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

INDUSTRIAL	PERMIT	NO.	PA	•	0100307	•
	-					_

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

Spectrum Control, Inc.

is authorized to discharge from a facility located at

Saegertown, Crawford County

to receiving waters named

French Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C hereof.

This permit and the authorization to discharge shall expire at midnight, JUL 2 4 1989

The authority granted by this permit is subject to the following further qualifications:

- 1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
- 2. Failure to comply with the terms or conditions of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES permit application form. In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal.
- This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

PERMIT ISSUED

DATE\_JUL 25 1984

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Richard H. Zinn Regional Environmental AR200939

ITLE Protection Director

through expiration date a. The permittee is authorized during the period from issuance date b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply:

		Disc	Discharge Limitations*	ions*		Monitorin	Monitoring Requirements	
	Mass Units	Ass Units (lbs/day)	Concer	Concentrations (mg/l)	(1)			24 Hou Report
Discharge	Average	Maximum	Average	Maximum	Ins	Measurement	Sample	Under
rarameter	FOILERLY	Dally	MOHICHTY	ратту	riax tindii	rrequency	Type	A.3.C
Flow (MGD)			0.01			Continuous	Recorder	
Eadmium			0.015		40.0	1/year	8 hr comp	
Copper			2.07	3.38	5.2	=	=	
Lead			0.43	69.0	1.1	=	=	
-Nickel			2.38	3.98	5.95	4/month	=	
Silver			90.0		0.15	=	=	
~Zinc			1.48	2.61	3.7	1/year	=	
. Cyanide (T)**			0.65	1.20	1.6	4/month	=	
<pre>/0il and Grease</pre>			15		30	1/year	3 grabs/8 hr	comp
'Total Suspended			30		09	4/month	8 hr comp	
***OLL				2.13		1/year	* * *	

\*\* - Refer to Part 3 - Other Requirements - Special Condition No. \*\* - Refer to Part 3 - Other Requirements - Special Condition No. 1 \*\*\*

Daily standard units at all times. Not less than 6.0 to 9.0

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There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations(s):

Outfall 001 - Treatment plant outfall prior to discharge to or mixing with storm \*Unless otherwise indicated, these are gross discharge limitations.

00940



through expiration date a. The permittee is authorized during the period from issuance date

b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply:

		Disc	Discharge Limitations*	ions*		Monitorir	Monitoring Requirements	ts
	Mass Units	(1bs/day)	Conce	ntrations (mg/	1)		4	24 Hour- Report
Discharge Parameter	Average Monthly	Average Maximum Monthly Daily	Average Monthly	Average Maximum I Monthly Daily	Instantaneous Maximum	Measurement Frequency	Sample Type	Under A.3.C?
Flow (MGD)			0.0072			Weekly	Estimate	
Temperature					1040F	Weekly	H . S	

This discharge shall consist solely of non-contact cooling water.

standard units at all times. 6.0 to 9.0 Not less than Hd

Weekly

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations(s):

Outfall 002 - Cooling water dischargé prior to discharge to or mixing with storm

\*Unless otherwise indicated, these are gross discharge limitations.

#### 2. Definitions

- a. The term "Bypass" means the intentional diversion of wastes from any portion of a treatment facility.
- b. The term "severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- c. The "average monthly" mass discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the average monthly mass discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- d. The "maximum daily" mass discharge means the total discharge by weight during any calendar day.
- e. The "average monthly' concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month.
- f. The "daily determination of concentration" means either the concentration of a composite sample taken during a calendar day or the arithmetic average of all grab samples taken during a calendar day.
- g. The "maximum daily" concentration means the daily determination of concentration for any calendar day.
- h. The "instantaneous maximum" concentration means the concentration not to be exceeded at any time in any grab sample.
- i. The term "Composite Sample" means a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall not exceed two hours, except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally-spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).
- j. The term "Grab Sample" means an individual sample collected in less than 15 minutes.

- k. The term "i-s" means immersion stabilization in which a calibrated device is immersed in the effluent stream until the reading is stabilized.
- The "average monthly" temperature means the arithmetic mean of temperature measurement made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month or during the operating month if flows are of a shorter duration.
- m. The "maximum daily" temperature means the highest arithmetic mean of the hourly temperatures observed for any two (2) consecutive hours during a 24-hour day, or during the operating day if flows are of a shorter duration.
- n. The term "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.
- o. The term "At outfall XXX" means a sampling location in outfall line XXX downstream from the last point at which wastes are added to outfall line XXX, or otherwise specified.
- p. The term "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.
- q. The term "non-contact cooling water" shall mean water which is used in a cooling system designed so as to maintain constant separation of the cooling medium from all contact with process chemicals but which may on occasion, as a result of corrosion, cooling system leakage or similar cooling system failures contain small amounts of process chemicals: provided, that all reasonable measures have been taken to prevent, reduce, eliminate and control to the maximum extent feasible such contamination: and provided further, that all reasonable measures have been taken that will mitigate the effects of such contamination once it has occurred.

#### 3. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

#### Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

#### b. Reporting of Monitoring Results

(1) Monitoring results obtained during each month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR) Form postmarked no later than the 28th day of the following month. Duplicate signed copies of these and all other reports required herein, shall be submitted to the Department and the EPA Regional Office at the following addresses:

Dept. of Environmental Resources
Bureau of Water Quality Management
1012 Water Street
Meadville, Pennsylvania 16335
Pennsylvania Section 3WM52
Water Permits Branch
Water Management Division

1.12

Pennsylvania Section (3EN22)
Permits Enforcement Branch
Enforcement Division
U.S. Environmental Protection
Agency
Region III
6th and Walnut Streets
Philadelphia, PA 19106

(2) If the permittee monitors any pollutant, using analytical methods described in A.3.e. below, more frequently that the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

#### c. Non-Compliance Reporting

- (1) <u>24-Hour Reporting</u> The permittee shall orally report to the Department within 24-hours of becoming aware of the following:
  - (a) Actual or anticipated non-compliance with any term or condition of this permit which may endanger health or the environment.
  - (b) Actual or anticipated non-compliance with any "maximum daily" discharge limitation which is identified in Part A.1 of this permit as being either:
    - (i) A toxic pollutant effluent standard established by EPA pursuant to Section 307(a) of the Clean Water Act,
    - (ii) For a toxic or hazardous polutant which, if not adequately treated, could constitute a threat to human health, welfare, or the environment, or AR200944

- (iii) Any pollutant identified as the method to control a toxic pollutant or hazardous substance (i.e. indicator pollutant).
- (c) Any unanticipated bypass which exceeds any effluent limitations in the permit.
- (d) Where the permittee orally reports this information within the above mentioned 24-hour time period, a written submission outlining the above information must be submitted to the Department within 5-days of becoming aware of such a condition, unless this requirement is waived by the Department upon receipt of the oral report.

#### (2) Other Non-Compliance Reporting

- (a) The permittee shall give advance notice to the Department of any planned changes to the permitted activity or facility which may result in non-compliance with permit requirements.
- (b) Where the permittee knows in advance of the need for a by-pass which will exceed effluent limitations, it shall submit prior notice to the Department at least 10 days, if possible, before the date of the bypass.

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- (c) The permittee shall report all instances of non-compliance which are not reported above at the time of DMR submission.
- (3) The reports and notifications required above shall contain the following information:
  - (a) A description of the discharge and cause of non-compliance;
  - (b) The period of non-compliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and
  - (c) Steps being taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.
- d. <u>Specific Toxic Substance Notification Levels</u> The permittee shall notify the Department as soon as it knows or has reason to believe the following:
  - (1) That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels".
    - (a) One hundred micrograms per liter

- (b) Two hundred micrograms per liter for acrolein and acrylonitrile
- (c) Five hundred micrograms per liter for 2, 4-dinitrophenol and 2-methyl -4, 6-dinitrophenol
- (d) One milligram per liter for antimony
- (e) Five (5) times the maximum concentration value reported for that pollutant in the permit application
- (f) Any other notification level established by the Department
- (2) That it has begun, or expects to begin, to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

#### e. Test Procedures

Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those contained in 40 CFR Part 136, or alternate test procedures approved pursuant to that part.

#### f. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- (1) The exact place, date, and time of sampling or measurements;
- (2) The person(s) who performed the sampling or measurements;
- (3) The dates the analyses were performed;
- (4) The person(s) who performed the analyses;
- (5) The analytical techniques or methods used; and
- (6) The results of such analyses.

#### g. Records Retention

All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three year period shall be extended as requested by the Department or the EPA Regional Administrator.

4. SCHEDULE OF COMPLIANCE

a. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

N/A

#### b. Periodic Reports Required

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to the Department a written notice of compliance or non-compliance with the specific schedule requirement. In the case of non-compliance, the notice shall include the cause of non-compliance, any remedial actions takens, the estimated date when compliance with the elapsed date shall occur, and the probability of meeting—the next scheduled requirement.

#### MANAGEMENT REQUIREMENTS

#### a. Permit Modification, Termination, or Revocation and Reissuance

- (1) This permit may be modified, terminated, or revoked and reissued during its term for any of the causes specified in 25 Pa. Code, Chapter 92.
- (2) The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.

#### (3) Toxic Pollutants

Notwithstanding the above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, then this permit shall be modified or revoked and reissued by the Department to conform with the toxic effluent standard or prohibition and the permittee so notified.

In the absence of a Departmental action to modify or to revoke and reissue this permit, any toxic effluent standard or prohibition established under Section 307(a) of the Act is considered to be effective and enforceable against the permittee.

#### b. Duty to Provide Information

- (1) The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (2) The permittee shall furnish to the Department, upon request, copies of records required to be kept by this permit.
- (3) Other Information Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information to the Department.
- (4) The permittee shall give advance notice to the Department of any planned physical alterations or additions to the permitted facility.

#### c. Facilities Operation

The permittee shall at all times maintain in good working order and properly operate all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee for water pollution control and abatement to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes but is not limited to effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training, and adequate laboratory and processing controls including appropriate quality assurance procedures. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with this permit.

#### d. Adverse Impact

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

#### e. Bypassing

- (1) Bypassing not Exceeding Permit Limitations The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation. This type of bypassing is not subject to the reporting and notification requirements of Part A.3.c above.
- (2) Other Bypassing In all other situations bypassing is prohibited unless the following conditions are met:
  - (a) A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage";
  - (b) There are no feasible alternatives to a bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down-time. (This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
  - (c) The permittee submitted the necessary reports required under Part A.3.c above.
- The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above.

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#### f. Reduction, Loss, or Failure of the Treatment Facilities

Upon reduction, loss, or failure of the treatment facilities, in order to maintain compliance with its permit, the permittee shall control production and all discharges until either the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

#### g. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from adversely affecting the environment.

#### 2. RESPONSIBILITIES

#### a. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law and 25 Pa. Code, Chapter 92, the permittee shall allow the head of the Department, the EPA Regional Administrator, and/or their authorized representatives, upon the presentation of credentials and other documents as may be required by law:

- (1) To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- (2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; to inspect any collection, treatment, pollution management, or discharge facilities required under the permit; and to sample any substances or parameters at any location.

#### b. Transfer of Ownership or Control

- (1) No permit may be transferred unless approved by the Department.
- (2) In the event of any pending change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the Department by letter of such pending change at least 30 days prior to the change in ownership or control.

- (3) The letter shall be accompanied by the appropriate Department forms for transfer of the permit and a written agreement between the existing permittee and the new owner or controller stating that the existing permittee shall be liable for violations of the permit up to and until the date of permit transfer and that the new owner or controller shall be liable for permit violations from that date on.
- (4) After receipt of the documentation above, the Department shall notify the existing permittee and the new owner or controller of its decision concerning approval of the transfer. In approving a transfer the Department may modify or revoke and reissue the permit.
- (5) In the event the Department does not approve transfer of the permit, the new owner or controller must submit a new permit application.

## c. Confidentiality of Reports

Except for data determined to be confidential under 25 Pa. Code, Chapter 92 all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department and the EPA Regional Administrator. Effluent data shall not be considered confidential.

## d. Penalties and Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance pursuant to Section 309 of the Clean Water Act or Sections 602 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

#### e. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize any injury to private property or any invasion of personal rights.

#### f. Other Laws

Nothing herein contained shall be construed to be an intent on the part of the Department to approve any act made or to be made by the permittee inconsistent with the permittee's lawful powers or with existing laws of the Commonwealth regulating industrial wastes and the practice of professional engineering, nor shall this permit be construed to sanction any act otherwise forbidden by federal or state law or regulation, or by local ordinance. Nor does it pre-empt any duty to obtain state or local assent required by law for the discharge(s).

#### g. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of nay provision of this permit to any circumstances, is held invalid, the application of such provision to other circumtances, and the remainder of this permit, shall not be affected thereby.

1. Self-monitoring for cyanide must be conducted after the cyanide destruction treatment process and before dilution with other internal plant stream flows.

### 2.

The term "TTO" shall mean total toxic organics, which is the summation of all quantifiable values greater than 0.01 milligrams per liter for the following toxic organics:

# GC/MS Fraction - Volatile Compounds

1V.	Acrolein	

2V. Acrylonitrite

3V. Benzene

4V. Bis (Chloromethyl) Ether

5V. Bromoform

6V. Carbon Tetrachloride

7V. Chlorobenzene

8V. Chlorodibromomethane

9V. Chloroethane

10V. 2-Chloroethylvinyl Ether

11V. Chloroform

12V. Dichlorobromomethane

13V. Dichlorodifluoromethane

14V. 1,1-Dichloroethane

15V. 1,2-Dichloroethane

16V. 1,1-Dichloroethylene

17V. 1,2-Dichloropropane

18V. 1,3-Dichloropropylene

19V. Ethylbenzene

20V. Methyl Bromide

21V. Methyl Chloride

22V. Methylene Chloride

23V. 1,1,2,2-Tetrachloroethane

24V. Tetrachloroethylene

25V. Toluene

26V. 1,2-Trans-Dichloroethylene

27V. 1,1,1-Trichloroethane

28V. 1,1,2-Trichloroethane 29V. Trichloroethylene

30V. Trichlorofluoromethane

31V. Vinyl Chloride

#### GC/MS Fraction - Base/Neutral Compounds

- 1B. Acenaphthene
- 2B. Acenaphtylene
- 3B. Anthracene
- 4B. Benzidine
- 5B. Benzo(a) Antracene
- 6B. Benzo(a) Pyrene
- 7B. 3,4-Benzofluoroanthene
- 8B. Benzo(ghi) Perylene
- 9B. Benzo(k) Fluoroanthene
- 10B. Bis(2-Chloroethoxy) Methane
- 11B. Bis(2-Chloroethyl) Ether
- 12B. Bis(2-Chloroisopropyl) Ether
- 13B. Bis(2-Ethylhexyl) Phthalate
- 14B. 4-Bromophenyl Phenyl Ether
- 15B. Butyl Benzyl Phthalate
- 16B. 2-Chloronaphthalene
- 17B. 4-Chlorophenyl Phenyl Ether
- 18B. Chrysene
- 19B. Dibenzo (a,h) Anthracene
- 20B. 1,2-Dichlorobenzene
- 21B. 1,3-Dichlorobenzene
- 22B. 1,4-Dichlorobenzene
- 23B. 3.3-Dichlorobenzidine
- 24B. Diethyl Phthalate

- 25B. Dimethyl Phthalate
- 26B. Di-N-Butyl Phthalate
- 27B. 2,4-Dinitrotoluene
- 28B. 2,6-Dinitrotoluene
- 29B. Di-N-Octyl Phthalate
- 30B. 1,2-Diphenylhydrazine (as Azobenzene)
- 31B. Fluoroanthene
- 32B. Fluorene
- 33B. Hexachlorobenzene
- 34B. Hexachlorobutadiene
- 35B. Hexachlorocyclopentadiene
- 36B. Hexachloroethane
- 37B. Indeno (1,2,3-cd) Pyrene
- 38B. Isophorone
- 39B. Naphthalene
- 40B. Nitrobenzene
- 41B. N-Nitrosodimethylamine
- 42B. N-Nitrosodi-N-Propylamine 200953
- 44B. Phenanthrene
- 45B. Pyrene
- 46B. 1,2,4-Trichlorobenzene

# GC/MS Fraction - Acid Compounds

1A. 2-Chlorophenol	7A. 4-Nitrophenol
2A. 2,4-Dichlorophenol	8A. P-Chloro-M-Cresol
3A. 2,4-Dimethylphenol	9A. Pentachlorophenol
4A. 4,6-Dinitro-O Cresol	10A. Phenol
5A. 2,4-Dinitrophenol	11A. 2,4,6,-Trichlorophenol
6A. 2-Nitrophenol	. , ,

# GC/MS Fraction - Pesticide Compounds

1P.	Aldrin	14P. Endrin
2P.	alpha-BHC	15P. Endrin Aldehyde
3P.	beta-BHC	16P. Heptachlor
4P.	gamma-BHC	17P. Heptachlor Epoxide
5P.	delta-BHC	18P. PCB-1242
6P.	Chlordane	19P. PCB-1254
	4,4-DDT	20P. PCB-1221
8P.	4,4-DDE	21P. PCB-1232
9P.	4,4-DDD	22P. PCB-1248
10P.	Dieldrin	23P. PCB-1260
11P.	Alpha-Endosulfan	24P. PCB-1016
12P.	Beta Endosulfan	25P. Toxaphene
13P	Endosulfan Sulfate	

#### Dioxin

# 2, 3, 7, 8 - Tetrachloroditenzo - P. Dioxin

The sample type and analytical procedures shall be as follows:

Priority Pollution Fraction	Sample Size & Type	Analytical Method
Volatile Base/Neutral Acid Pesticides Dioxin	40 ml glass VOA vial/Grab 1/2 gallon/24 hr. composite 1/2 gallon/24 hr. composite 1/2 gallon/24 hr. composite 1/2 gallon/24 hr. composite	624 625 624/625 625 613